

SERVICE MANUAL

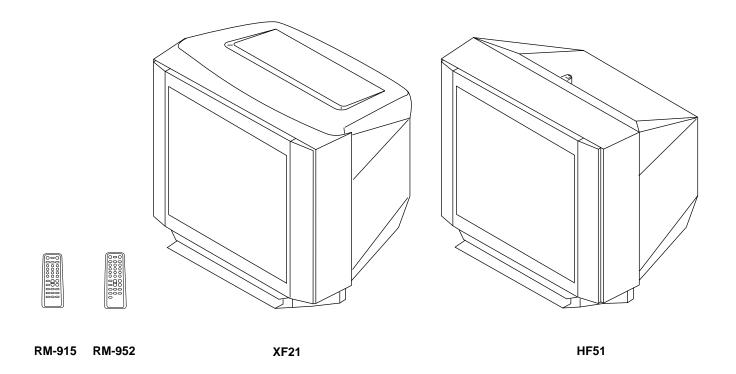
BG-3Schassis

MODEL COMMANDER DEST. CHASSIS NO.

MODEL

COMMANDER DEST. CHASSIS NO.

KV-HF51P50 RM-952 Indonesia SCC-U20K-A KV-XF21M80 RM-952 E SCC-U13C-A KV-XF21M80 RM-952 ME SCC-U16W-A KV-XF21M80 RM-952 Vietnam SCC-U28A-A KV-XF21M83 RM-952 SCC-U28B-A Vietnam KV-XF21N90 RM-915 SCC-P13D-A Taiwan KV-XF51M65 RM-952 Indonesia SCC-U20F-A







RM-952

RM-952

RM-915

RM-952

SPECIFICATIONS (KV-HF51P50)

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G	
Color system	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	
Channel coverage	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
⊺ (Antenna)	75-ohm external terminal	
Audio output	5W + 5W	
Number of terminal		
	Input: 2 Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
♪ (Audio)	Input: 2 Output: 1	Phono jacks; 500 mVrms
⊖ (Headphone)	Output: 1	Minijack
Picture tube		
Tube size (mm)	545	Measured diagonally
Screen size (mm)	507	Measured diagonally
Dimension (w/h/d, mm)	$640 \times 456 \times 495$	
Mass (kg)	27	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

RM-952

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RM-952

SPECIFICATIONS (KV-XF21M80/XF21M83/XF51M65)

			Note
Power requirements	110-240 V AC, 50/60 Hz		
Power consumption (W)	Indicated on the rear of the TV		
Television system	B/G, I, D/K, M		
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58		
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G; I; A2 Stereo/Bilingual B/G;	gual (German) B/G	KV-XF51M65 only
Teletext Language	English, Arabic, French		KV-XF51M65 only
Channel coverage	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01	to S03, S1 to S41	
□ (Antenna)	75-ohm external terminal		
Audio output	3W + 3W		KV-XF21M83/ XF51M65
	5W + 5W		KV-XF21M80
3D WOOFER	9W		KV-XF21M83/ XF51M65 only
Number of terminal			
	Input: 2 Output: 1		Phono jacks; 1 V _{P-P} , 75 ohms
♪ (Audio)	Input: 2 Output: 1		Phono jacks; 500 mVrms
	Output: 1		Minijack
Picture tube	21 inch		
Tube size	54 cm Measure	ed diagonally	KV-XF21M80/ XF21M83
	545 mm		KV-XF51M65
Screen size	51 cm Measure	ed diagonally	KV-XF21M80/ XF21M83
	507 mm		KV-XF51M65
Dimension (w/h/d, mm)	$640 \times 470 \times 498$		KV-XF21M83/ XF51M65
	$640 \times 456 \times 498$		KV-XF21M80
Mass (kg)	29		KV-XF21M83/ XF51M65
	27		KV-XF21M80

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

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SPECIFICATIONS (KV-XF21N90)

		Note
Power requirements	110 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	М	
Color system	NTSC3.58, PAL*, PAL 60*, SECAM*, NTSC 4.43*	*AV only
Stereo system	MTS	
Channel coverage	VHF: 2 to 13/ UHF: 14 to 69 CATV: A-8 to A-1, A-W, W+1 to W+84	
□ (Antenna)	75-ohm external terminal	
Audio output	5W + 5W	
Number of terminal		
Video	Input: 2 Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
Audio	Input: 2 Output: 1	Phono jacks; 500 mVrms
Headphone	Output: 1	Minijack
Picture tube	21 inch	
Tube size (mm)	545	Measured diagonally
Screen size (mm)	510	Measured diagonally
Dimension (w/h/d, mm)	$640 \times 456 \times 498$	
Mass (kg)	27	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

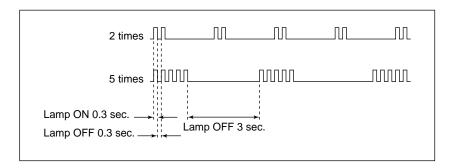
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_	 Power cord is not plugged in. Fuse is burned out F4601 (F) 	 Power does not come on. No power is supplied to the TV. AC power supply is faulty.
+B overcurrent (OCP) or overvoltage (OVP) Vertical deflection stopped Horizontal deflection overdrive	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	H.OUT Q511 is shorted. (A board) IC1800 is shorted. (C5 board) -13V is not supplied. (A board) IC 503 faulty (A board) IC 301 faulty (A board)	 Power does not come on. Load on power line is shorted. Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	 G2 is improperly adjusted. (Note 2) CRT problem. Video OUT IC1800 is faulty. (C5 board) IC301 is faulty. (A board) No connection A board to C5 board. 	No raster is generated. CRT cathode current detection reference pulse output is small.
Micro reset	_	101:00 or 101:001~225	Discharge CRT (C5 Board)Static dischargeExternal noise	 Power is shut down shortly, after this return back to normal. Detect Micro latch up.

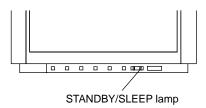
Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.

The symptom that is diagnosed first by the microcontroller is displayed on the screen.

Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT





Diagnostic Item +B overcurrent/overvoltage Vertical deflection stopped

Flash Count* 2 times

White balance failure 5 times

STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

^{*} One flash count is not used for self-diagnostic.

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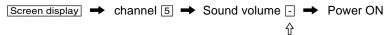
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4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

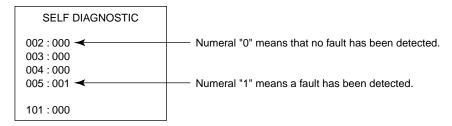
[To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



Note that this differs from entering the service mode (mode volume \pm).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

To clear the result display to "0", press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel 8 → 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

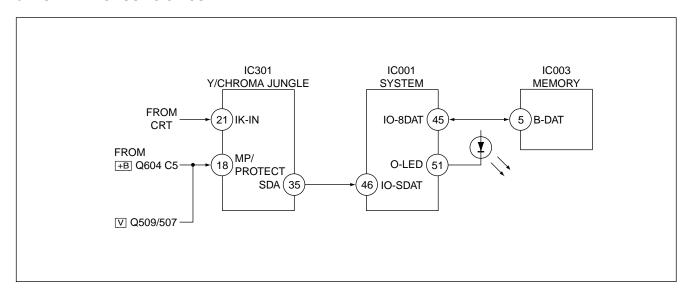
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6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)

Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

Vertical deflection stopped

Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.

Vertical deflection overcurrent

Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.

White balance failure

If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture.

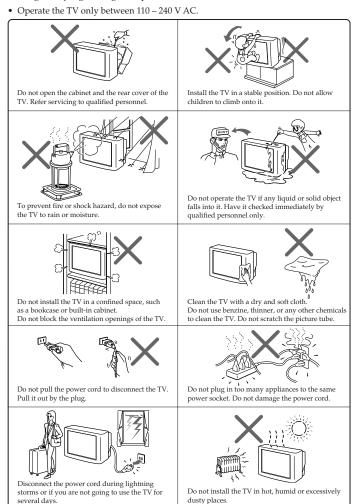
^{* (}Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1-1 GENERAL (KV-HF51P50)

WARNING

• Dangerously high voltages are present inside the TV.



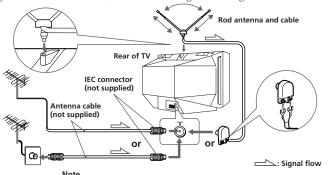
Using Your New TV

Getting Started

Step 1

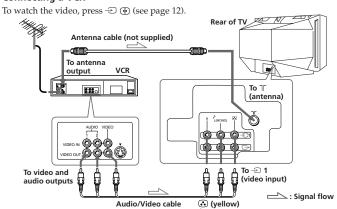
Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



• You are advised to use an outdoor antenna for better reception.

Connecting a VCR



♪-L (MONO) (white)

(not supplied)

2

- If you connect a monaural VCR, connect the yellow plug to . (the yellow jack) and the black plug to ♪-L (MONO) (the white jack).
- When no signal is input to the connected video equipment, the TV screen becomes blue

CAUTION

Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Step 2

Insert the batteries into the remote

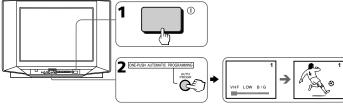




Step 3

Preset the channels automatically

Front of TV



Tips

- · If you want to exit automatic channel presetting, press SELECT twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 9).

Now You Are Ready. . .

To watch your TV, see page 11.



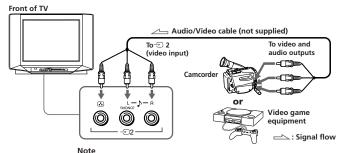
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Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

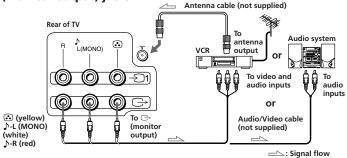
To watch the picture of the connected equipment, press \bigcirc (see page 12).

Connecting a camcorder/video game equipment using the € (video input) jacks



 You can also connect video equipment to the
1 (video input) jacks at the rear of your TV.

Connecting audio/video equipment using the ⊖ (monitor output) jacks



Note

Using Your New TV

Using Your New TV

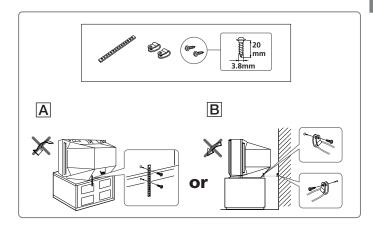
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

(A) With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

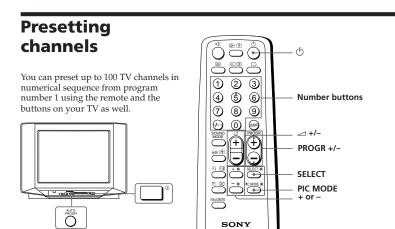
or

B Put the cord or chain through the clamps to secure the TV against a wall or pillar.



Note

• Use only the supplied screws. Use of other screws may damage the TV.



TV

Presetting channels automatically

Press ① to turn on the TV.

Press AUTO PROGR.

AUTO PROGR

VHF LOW B/G

To preset channels automatically from a specified program number

- (1) Press SELECT until "AUTO PROGRAM" appears.
- (2) Press + or -. The on-screen display will start flashing.
- (3) Press PROGR +/– or the number buttons until the desired program number appears.
- (4) Press + or -.

Using Your New TV

continued

Using Your No

Using Your New TV

Presetting channels (continued)

To change the color system setting

If the color is abnormal when receiving programs through the $\ensuremath{\mathbb{T}}$ (antenna) terminal or the € (video input) jack

(1) Press SELECT until "COL SYS" appears.

COL SYS : AUTO

(2) Press + or - to select the appropriate color system until the color is optimal.



• Normally set "COL SYS" to "AUTO"

Skipping program numbers

- Press PROGR +/- or the number buttons until the unused or unwanted program number appears.
- Press SELECT until "MANUAL PROGRAM" appears.
- 3 Press + or -.
- Press PIC MODE.
- Press SELECT.

To preset the skipped program number again

Preset the channel automatically or manually.

skip program numbers.

To use the fine tuning (FINE) function

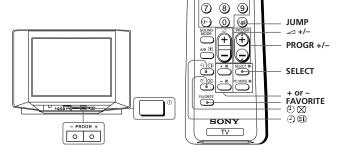
The fine tuning (FINE) function may help to reduce the following problems: double images and lines moving across the TV screen.

You can use the fine tuning function as below:

- (1) Select the program number you want to adjust.
- (2) Press SELECT until "MANUAL PROGRAM" appears on the screen.
- (3) Press + or on the remote control once.
- (4) Press (1) ? to display "FINE" on the screen.
- (5) Press + or continuously until the above problems are minimized. The + or - icon on the screen flashes while tuning.
- (6) Press SELECT to return to normal screen.
- 10 Using Your New TV

Watching the TV

This section explains functions used while watching the TV. Most operations can be done using the remote.



Press ① to turn on the TV.

When the TV is in the standby mode (the 🖰 indicator on the TV is lit red), press () on the remote or PROGR +/- on the TV.

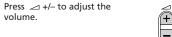


PROGR

Press PROGR +/- or the number buttons to select the TV program.

volume.

For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).





Additional tasks

Watching the TV (continued)

То	Do this
Turn off temporarily	Press 🖰. The 🖰 indicator on the TV lights up red.
Turn off completely	Press ① on the TV.
Mute the sound	Press ºX.
Watch the video input (VCR, camcorder, etc.)	Press → ⊕ to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press □.
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press (+)?.
Adjust the volume of each TV program automatically	Press SELECT repeatedly until "INTELLIGENT VOL" appears, then press + or – to select "ON". To cancel, select "OFF".
Adjust the picture position when it is not aligned to the TV screen	Press SELECT repeatedly until "PIC ROTATION" appears, then press + or – to adjust the alignment of the picture position
	PIC ROTATION ⊕↓□□↓□
	The $\ \ \Box$ or $\ \Box$ icon on the screen flashes while adjusting.

* The picture, sound, and either the program number or video mode are

displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the on-screen display language



You can also use SELECT and ∠ +/- on the TV to select the on-screen display language.

continued

123

4 5 6

789

or

Using Your New TV | 11

ः (+) ?)

⊕

Number buttons

1 2 3 4 5 6

Advanced Operations

Setting the Wake Up timer

Press 🕘 🗊 until the desired period of time appears.



Select the TV program or video mode you want to display when you wake up.

Press $\stackrel{(1)}{\circ}$ or set the Sleep timer if you want the TV to turn off automatically.

The ① indicator on the TV lights up orange.

To cancel the Wake Up timer

Press 🕒 🗊 until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

- The Wake Up timer starts immediately after the on-screen display
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press ⊕ ⊠ until the desired period of time appears.

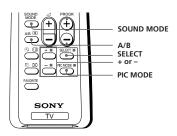


To cancel the Sleep timer

Press ⊕ ⋈ until "SLEEP TIMER: OFF" appears or turn the TV off.

Customizing the picture and sound

You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.



Selecting the picture and sound modes

To select the picture mode

Press PIC MODE repeatedly until you get the desired picture mode.



Select	То
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.

To select the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.

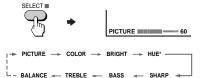


Select	То
DYNAMIC	listen to dynamic and clear sound that emphasizes the low and high sound.
DRAMA	listen to sound that emphasizes vocals and background music.
SOFT	receive soft sound.

6

Adjusting the picture and sound settings

Press SELECT until the desired setting appears.



will change as follows: Press + or - to adjust the item.

Each time you press

SELECT, the setting item



To adjust other items, repeat steps 1 to 2.

* "HUE" can be adjusted for NTSC system only.

Notes

- When you select a picture or sound mode, the adjusted settings will be reset according to the selected mode.
- picture settings.

Selecting the surround mode

Press SELECT repeatedly until "SURROUND" appears.



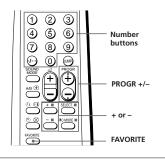
Press + or - to select the desired surround sound.



Select	То
MOVIE	listen to sound that spreads out over a large area, giving the feeling of being at a movie theatre.
MUSIC	listen to the sound that gives the feeling of being at a live concert.
OFF	turn off the surround sound.

Viewing your favorite channels

You can display six of your favorite channels for quick and easy selection. You can change the favorite channel setting as well.



Selecting a favorite channel

Press FAVORITE.



FAVORITE CH ①PR01 @PR02 @PR03 @PR04 @PR05 @PR06

Press the number button from 1 to 6 to select the desired channel.





When you use the FAVORITE CH feature for the first time, six preset channels will appear.

Changing the favorite channel setting

Press SELECT until "FAVORITE CH SET UP" appears.





Press + or - to select the favorite channel you want to change (e.g. 3 PR03).



FAVORITE CH SET UP ①PR01 ②PR02 <mark>③PR03</mark> ④PR04 ③PR05 ⑥PR06

Press PROGR +/-, or the number buttons to change the program number.



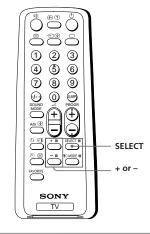


- Repeat steps 2 and 3 to set other favorite channels.
- Press SELECT.

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

Blocking the channels (CHILD LOCK)

You can prevent a child from watching certain programs by using the buttons on the remote control.



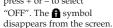
- Select the TV program you want to lock.
- Press SELECT until "CHILD LOCK" appears on the screen.



Press + or - to select

The first symbol appears on the screen.

To unlock the channel, press + or - to select "OFF". The fa symbol





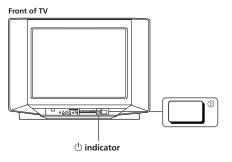


• If you preset a locked channel, that particular channel will be unlocked

Additional Information

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the \circlearrowleft indicator flashes red. The number of times the \circlearrowleft indicator flashes indicates the possible causes.



- Check that the (b) indicator flashes red a number of times between 3-second
- Count the number of times the (1) indicator flashes.
- Press ① (main power) to turn off your TV.
- Inform your nearest Sony service center about the number of times the (b) indicator flashes.

Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .

Symptom	Solutions	Possible cause
Snowy picture	Check the antenna cable and connection on the TV, VCR and on the wall. (page 4)	Connection is loose or the cable is damaged.
1 3 3	Press SELECT until "MANUAL PROGRAM" appears on the screen then preset the channel again. (page 9)	Channel presetting is inappropriate or incomplete.
Noisy sound	Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	The antenna type is inappropriate.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inappropriate.
	Try using a booster.	Signal transmission is low.
Distorted picture Noisy sound	Turn off or disconnect the booster if it is in use.	Broadcast signals are too strong.
Good picture Noisy sound	If the sound of all the channels are noisy, press AUTO PROGR to preset the channels again. (page 8)	Channel presetting is inappropriate or incomplete.
No picture	Check the power cord, antenna and the VCR connections.	The power cord, antenna or VCR is not connected.
No sound	Press (b) (power). Press (c) (main power) on the TV to turn off the TV for about five seconds, then turn it on again.	• The TV is not turned on.

Troubleshooting (continued)

Symptom	Solutions	Possible cause
Good picture	Press + to increase the volume level.	The volume level is too low.
No sound	Press v to cancel the muting.	The sound is muted.
Dotted lines or stripes	Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice.	There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts"	Use a highly directional antenna. Use the fine tuning (FINE) function. (page 10)	Broadcast signals are reflected by nearby mountains or buildings.
3	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inapproprite.
	Turn off or disconnect the booster if it is in use.	Use of a booster is inappropriate.
No color	Press SELECT until "COLOR" appears on the screen, then press + or – to adjust the color level. (page 15)	The color level setting is too low.
	Press SELECT until "COL SYS" appears on the screen, then check the color system setting (usually set this to "AUTO"). (page 10).	The color system setting is inappropriate.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inapproriate.
Abnormal color patches	Locate the TV away from external speakers or other equipment. Do not move the TV while the TV is turned on. Press © (main power) on the TV to turn off the TV for about five minutes, then turn it on again.	The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.

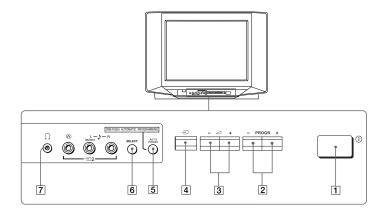
continued

Symptom	Solutions	Possible cause
Picture slant	Press SELECT until "PIC ROTATION" appears on the screen, then press + or – to align the picture to the TV screen. (page 12)	The terrestrial magnetism affects your TV set.
Lines moving across the TV screen.	Use the fine tuning (FINE) function. (page 10)	There is interference from external sources, e.g., heavy machineries, nearby broadcast station.
The (1) indication on your TV flashes red a number of times between 3-second intervals.	Contact your nearest Sony service center. (page 18)	Your TV may need service.
TV cabinet creaks.	_	Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
A "boom" sound is heard when the TV is turned on.	_	The TV's demagnetizing function is working. This does not indicate a malfunction.

Identifying parts and controls

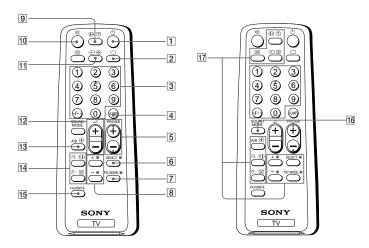
Refer to the pages indicated in parentheses () for details.

Front panel



- 1 (main power) button (11)
- 2 PROGR +/- (program) buttons (11)
- 3 4/- (volume) buttons (11)
- 4 (TV/video) button (12)
- 5 AUTO PROGR (program) button (5)
- 6 SELECT button (10)
- 7 (headphone) jack

Remote Control



- $\boxed{1}$ $\stackrel{()}{\cup}$ (power) button (11)
- 2 (TV) button (12)
- 3 Number buttons (11)
- 4 JUMP button (12)
- 5 PROGR +/- buttons (11)
- 6 SELECT button (9)
- 7 PIC MODE button (14)
- 8 +/- buttons (8)
- 9 (display) button (12)
- 10 × (muting) button (12)
- 11 (video) button (12)
- $\boxed{12} \angle + + \text{(volume) buttons (11)}$
- 13 A/B button
- (not used for KV-HF51P50)
- 14 Timer setting buttons (13) (wake up timer)
 - (4) (sleep timer)
- 15 FAVORITE button (16)

- 16 SOUND MODE button (14)
- 17 Teletext operation buttons (not used for KV-HF51P50)
 - (text)
- (enlarge)
- ? (reveal)
- (hold)

- (index)

- (FASTEXT: red, green, yellow, blue)

Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color Button function	
White	For general TV operations
Green	For Teletext operations

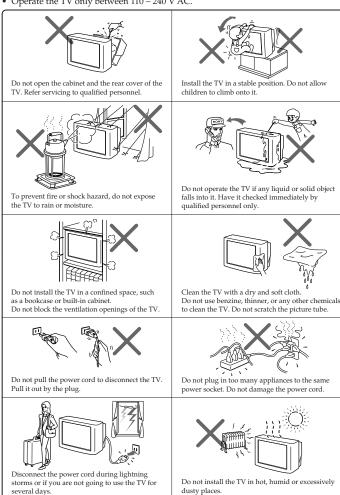
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1-2 GENERAL

(KV-XF21M80/XF21M83/XF51M65)

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 240 V AC.



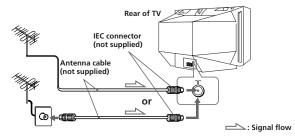
Using Your New TV

Getting Started

Step 1

Connect the antenna

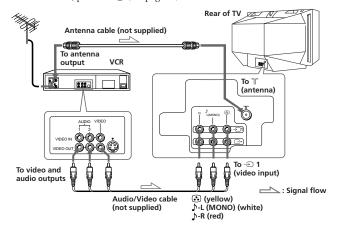
If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



• Rod antenna and cable are supplied for KV-XF21M80 only.

Connecting a VCR

To watch the video, press € (see page 13).



Notes

- If you connect a monaural VCR, connect the yellow plug to . (the
- yellow jack) and the black plug to ♪-L (MONO) (the white jack).

 If you connect a VCR to the

 (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- When no signal is input to the connected video equipment, the TV screen

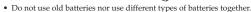
CAUTION

Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Step 2

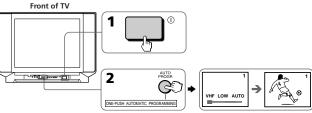
Insert the batteries into the remote





Step 3

Preset the channels automatically



Tips

- · If you want to stop automatic channel presetting, press SELECT twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 10).

Note (KV-XF21M80/XF21M83 only)

• During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

Now You Are Ready. . .

To watch your TV, see page 12.

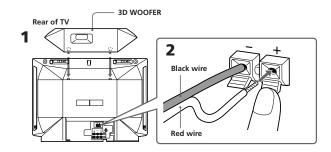


Using Your New TV | 5

Connecting the 3D WOOFER

(KV-XF21M83/XF51M65 only)

You can enjoy high quality sound by connecting the 3D WOOFER.



KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65

- Attach the 3D WOOFER into the footholds on the top of your TV.
- Connect the wires to the 3D WOOFER (8 Ω) terminals at the rear of your TV. The red wire should be connected to the \oplus red terminal and the black wire to the \odot black terminal.

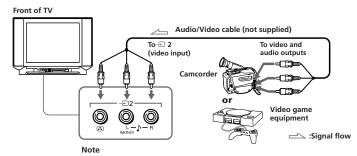
- Connect only the supplied 3D WOOFER; otherwise your TV may
- Unplug your TV from the wall outlet when connecting the 3D WOOFER.
- To prevent a malfunction caused by a short circuit of the terminals, make sure that none of the 3D WOOFER wire strands stick out, making contact with the neighbouring speaker terminal.

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

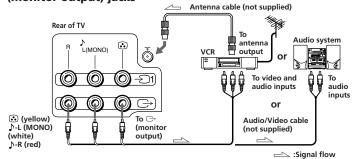
To watch the picture of the connected equipment, press \bigcirc \bigcirc (see page 13).

Connecting a camcorder/video game equipment using the € (video input) jacks



• You can also connect video equipment to the € 1 (video input) jacks at the rear of your TV.

Connecting audio/video equipment using the → (monitor output) jacks



• When connecting a monaural VCR, connect the yellow plug to ... (the yellow jack) and the black plug to 1 -L (MONO) (the white jack).

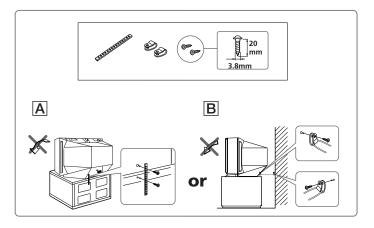
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

Mith the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

Put the cord or chain through the clamps to secure the TV against a wall or pillar.

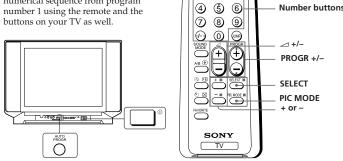


• Use only the supplied screws. Use of other screws may damage the TV.

Using Your New TV



You can preset up to 100 TV channels in numerical sequence from program number 1 using the remote and the



① 2 3

Presetting channels automatically

Press ① to turn on the TV.



Press AUTO PROGR.



Note (KV-XF21M80/XF21M83 only)

• During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

To preset channels automatically from a specified program number

- (1) Press SELECT until "AUTO PROGRAM" appears.
- (2) Press + or -. The on-screen display will start flashing.
- (3) Press PROGR +/- or the number buttons until the desired program number appears.
- (4) Press + or -.

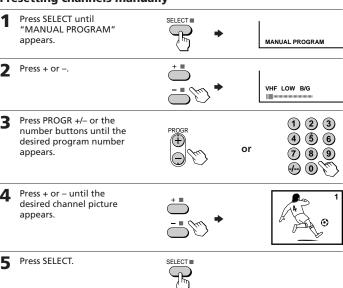
continued

Using Your New TV | 9

Number buttons

Presetting channels (continued)

Presetting channels manually



To change the TV system setting

If the picture or sound is abnormal when receiving programs through the

(antenna) terminal

(1) Press SELECT until "TV SYS" appears.

TV SYS: B/G

(2) Press + or - to select the appropriate TV system until the picture or sound quality is optimal.



To change the color system setting

If the color is abnormal when receiving programs through the $\ensuremath{\mathbb{T}}$ (antenna) terminal or the € (video input) jack

(1) Press SELECT until "COL SYS" appears.

COL SYS: AUTO

(2) Press + or – to select the appropriate color system until the color is optimal.

→ AUTO → PAL → SECAM → NTSC 3.58 → NTSC 4.43

· Normally set "COL SYS" to "AUTO".

Skipping program numbers

Press PROGR +/- or the number buttons until the unused or unwanted program number appears.

Press SELECT until "MANUAL PROGRAM" appears.

Press + or -.

Press PIC MODE.

Press SELECT.

To preset the skipped program number again

Preset the channel automatically or manually.

skip program numbers.

To use the fine tuning (FINE) function

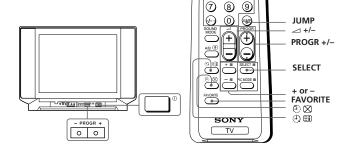
The fine tuning (FINE) function may help to reduce the following problems: incomplete Teletext display (KV-XF51M65 only), double images and lines moving across the TV screen.

You can use the fine tuning function as below:

- (1) Select the program number you want to adjust.
- (2) Press SELECT until "MANUAL PROGRAM" appears on the screen.
- (3) Press + or on the remote control once.
- (4) Press (1) ? to display "FINE" on the screen.
- (5) Press + or continuously until the above problems are minimized. The + or - icon on the screen flashes while tuning.
- (6) Press SELECT to return to normal screen.

Watching the TV

This section explains functions used while watching the TV. Most operations can be done using the remote.



Press ① to turn on the TV.

When the TV is in the standby mode (the 🖰 indicator on the TV is lit red), press () on the remote or PROGR +/- on the TV.



пХ

(l)

(5) 4

6

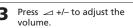
① 2 3 (i)?

Ð.

Number buttons

Press PROGR +/- or the number buttons to select the TV program.

> For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).





or

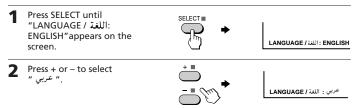
Using Your New TV

Additional tasks

То	Do this
Turn off temporarily	Press (). The () indicator on the TV lights up red.
Turn off completely	Press ① on the TV.
Mute the sound	Press º¾.
Watch the video input (VCR, camcorder, etc.)	Press → ⊕ to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press □.
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press (+)?.
Adjust the volume of each TV program automatically	Press SELECT repeatedly until "INTELLIGENT VOL" appears, then press + or – to select "ON". To cancel, select "OFF".
Adjust the picture position when it is not aligned to the TV screen	Press SELECT repeatedly until "PIC ROTATION" appears, then press + or – to adjust the alignment of the picture position.
	PIC ROTATION ⊕↓□→□
	The $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$

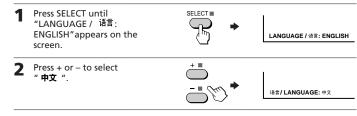
* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the on-screen display language (KV-XF21M80(ME))



• You can also use SELECT and ∠ +/- on the TV to select the on-screen display language. continued

Changing the on-screen display language (KV-XF21M80(E, Vietnam)/XF21M83/XF51M65)



• You can also use SELECT and ∠ +/- on the TV to select the on-screen display language.

Using Your New TV

Advanced Operations

Setting the Wake Up timer

Press (1) (1) until the desired period of time appears.



Select the TV program or video mode you want to display when you wake up.

Press 1 or set the Sleep timer if you want the TV to turn off automatically.

The (4) indicator on the TV lights up orange.

To cancel the Wake Up timer

Press 🕘 🗊 until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

Notes

- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press ⊕ ⊗ until the desired period of time appears.



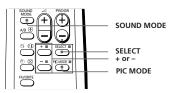
To cancel the Sleep timer

Press ⊕ ⊗ until "SLEEP TIMER: OFF" appears or turn the TV off.

Customizing the picture and sound

You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.

You can change the sound effect by selecting the surround mode.



Selecting the picture and sound modes

To select the picture mode

Press PIC MODE repeatedly until you get the desired picture mode.



Select	То
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.

To select the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



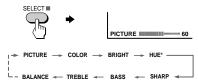
Select	То
DYNAMIC listen to dynamic and clear sound that emphasizes high sound.	
DRAMA	listen to sound that emphasizes vocals and background music.
SOFT	receive soft sound.

Adjusting the picture and sound settings

Press SELECT until the desired setting appears.

Each time you press

SELECT, the setting item will change as follows:



Press + or - to adjust the



To adjust other items, repeat steps 1 to 2.

* "HUE" can be adjusted for the NTSC system only.

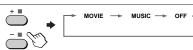
- When you select a picture or sound mode, the adjusted settings will be reset according to the selected mode.
- You can also use SELECT and ∠ +/- on the TV to adjust the picture and sound settings.

Selecting the surround mode

Press SELECT repeatedly until "SURROUND" appears.



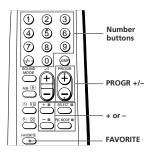
Press + or – to select the desired surround sound.



Select	То	
MOVIE listen to sound that spreads out over a large area, givin of being at a movie theatre.		
MUSIC	listen to the sound that gives the feeling of being at a live concert.	
OFF	turn off the surround sound.	

Viewing your favorite channels

You can display six of your favorite channels for quick and easy selection. You can change the favorite channel setting as well.



Selecting a favorite channel

Press FAVORITE.



FAVORITE CH ①PR01 @PR02 @PR03 @PR04 @PR05 @PR06

Press the number button from 1 to 6 to select the desired channel.



When you use the FAVORITE CH feature for the first time, six preset channels will appear.

Changing the favorite channel setting

Press SELECT until "FAVORITE CH SET UP" appears.





Press + or - to select the favorite channel you want to change (e.g. 3 PR03).





Press PROGR +/-, or number buttons to change the program number.

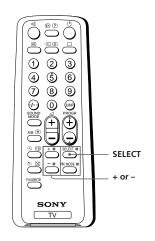


Repeat steps 2 and 3 to set other favorite channels.

Press SELECT.

Operations

You can prevent a child from watching certain programs by using the buttons on the remote control.



- Select the TV program you want to lock.
- Press SELECT until "CHILD LOCK" appears on the screen.



Press + or – to select

The fa symbol appears on the screen.

To unlock the channel, press + or - to select

"OFF". The ft symbol disappears from the screen.



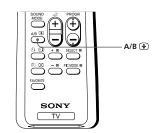


• If you preset a locked channel, that particular channel will be unlocked automatically.

Selecting a stereo or bilingual program

(KV-XF51M65 only)

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.

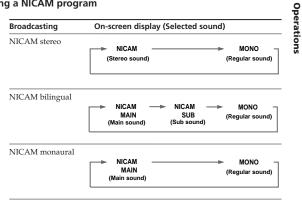


Press A/B ⊕ repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound and the OD indicator on the TV lights up red.

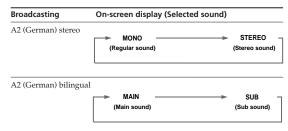


When receiving a NICAM program



| 19 Advanced Operations **Advanced Operations**

When receiving an A2 (German) program



Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the T (antenna) terminal

Press A/B ⊕ repeatedly until "MONO" appears on the screen. To cancel the monaural sound setting, press A/B ③ again until "AUTO" appears on the screen.



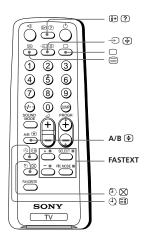
Notes

- The "MONO" or "AUTO" setting is memorized for each program
- You cannot receive stereo broadcast signal when the TV is in the "MONO" setting. Normally set the TV to "AUTO."

Viewing Teletext

(KV-XF51M65 only)

TV stations broadcast an information service called Teletext via some TV channels. Teletext allows you to receive various information, such as shares market or news.



Displaying Teletext

- Select a TV channel that carries the Teletext broadcast you want to watch.
- Press
 to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.



To turn off Teletext

Press \square .

continued

Advanced Operations

Additional Information | 21

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

Viewing Teletext (continued)

Additional Teletext tasks

То	Do this	
display a Teletext page on the TV picture	Press ⊜. Each time you press ⊜, the screen changes as follows: Teletext → Teletext and TV → TV.	
check the contents of a Teletext service	Press (1) (1). An overview of the Teletext contents and page numbers appear on the screen.	
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/	
hold a Teletext page (stop the page from scrolling)	Press → ⊕ to display the symbol "⊕" at the top left corner of the screen. To resume normal Teletext operation, press → ⊕ or ■.	
reveal concealed information (e.g., an answer to a quiz)	Press (i) (?). To conceal the information, press the button again.	
enlarge the Teletext display	Press A/B ⊕. Each time you press A/B ⊕, the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.	
wait for a Teletext page while watching a TV program	Enter the Teletext page number that you want to refer to, then press ② ⊗. When the page number is displayed, press ⊜ to show the text.	

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding colorcoded button on the remote.

Using FASTEXT

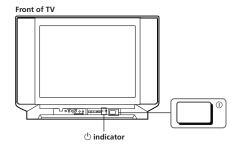
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red, green, yellow, and blue color-coded buttons on the remote.

To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after several seconds.

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the (b) indicator flashes red. The number of times the \circlearrowleft indicator flashes indicates the possible causes.



- Check that the $^{(\!)}$ indicator flashes red a number of times between 3-second intervals.
- Count the number of times the 1 indicator flashes.
- Press ① (main power) to turn off your TV.
- Inform your nearest Sony service center about the number of times the (b) indicator flashes. Be sure to note the model name and serial number located on the rear of your TV.

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Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .

Symptom	Solutions	Possible cause
Snowy picture	Check the antenna cable and connection on the TV, VCR and on the wall. (page 4)	Connection is loose or the cable is damaged.
	Press SELECT until "MANUAL PROGRAM" appears on the screen then preset the channel again. (page 10)	Channel presetting is inappropriate or incomplete.
Noisy sound	Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	The antenna type is inappropriate.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inappropriate.
	Try using a booster.	Signal transmission is low.
Distorted picture Noisy sound	Turn off or disconnect the booster if it is in use.	Broadcast signals are too strong.
Good picture	If the sound of all the channels are noisy, check the TV system (TV SYS) setting (page 10), then press AUTO PROGR to preset the channels again (page 9).	The TV system setting or channel presetting is inappropriate or incomplete.
Noisy sound	If the sound of some channels are noisy, select the channel, then select the appropriate TV system (TV SYS). (page 10)	
No picture	Check the power cord, antenna and the VCR connections.	The power cord, antenna or VCR is not connected.
	• Press 🖰 (power).	The TV is not turned on.
No sound	Press ① (main power) on the TV to turn off the TV for about five seconds, then turn it on again.	

Symptom	Solutions	Possible cause
Good picture	Press + to increase the volume level.	The volume level is too low.
	Press ¾ to cancel the muting.	The sound is muted.
	Press A/B ⊕ until a better sound is heard. (KV-XF51M65 only)	Broadcast signal has a transmission problem.
No sound		
Dotted lines or stripes	Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice.	There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts"	Use a highly directional antenna. Use the fine tuning (FINE) function. (page 11)	Broadcast signals are reflected by nearby mountains or buildings.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inapproprite.
	Turn off or disconnect the booster if it is in use.	Use of a booster is inappropriate.
No color	Press SELECT until "COLOR" appears on the screen, then press + or – to adjust the color level. (page 16)	The color level setting is too low.
	Press SELECT until "COL SYS" appears on the screen, then check the color system setting (usually set this to "AUTO"). (page 11).	The color system setting is inappropriate.
	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inapproriate.
Abnormal color patches	Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press ① (main power) on the TV to turn off the TV for about five minutes, then turn it on again.	The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.
TV cannot receive stereo broadcast signal (KV-XF51M65 only)	Press A/B ⊕ until "AUTO" appears on the screen	The stereo reception setting is inappropriate.

continued

Additional Information | 23 22 | Additional Information

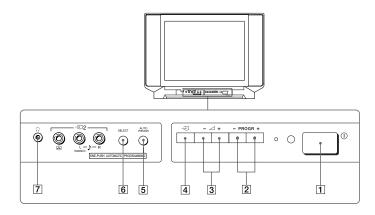
-952	5
RM-952	50/XF21M80/XF21
RM-952	_
RM-915	M83/XF21N90/
RŅ	1N90/XF51N

Symptom	Solutions	Possible cause
Stereo broadcast sound switches on and off or is distorted.	Check the antenna cable and connection on the TV, VCR and on the wall. (page 4)	Connection is loose or the cable is damaged.
or	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inappropriate.
The sound switches between monaural and stereo frequently. (KV-XF51M65 only)	• Press A/B ⊕ until a better sound is heard.	Broadcast signal has a transmission problem.
"100" appears on the top of the screen and there is no Teletext display. (KV-XF51M65 only)	_	The channel carries no Teletext broadcast.
Teletext display is incomplete (snowy picture or double images).	Check the antenna cable and connection on the TV, VCR, and at the wall. (page 4)	Connection is loose or the cable is damaged.
(KV-XF51M65 only)	Adjust the antenna direction. Contact a Sony dealer for advice.	The antenna direction is inappropriate.
	Try using a booster. Use the fine tuning (FINE) function. (page 11)	Signal transmission is too low.
Picture slant	Press SELECT until "PIC ROTATION" appears on the screen, then press + or – to align the picture to the TV screen. (page 13)	The terrestrial magnetism affects your TV set.
Lines moving across the TV screen.	Use the fine tuning (FINE) function. (page 11)	There is interference from external sources, e.g., heavy machineries, nearby broadcast station.
The (1) indicator on your TV flashes red a number of times between 3-second intervals.	Contact your nearest Sony service center. (page 23)	Your TV may need service
TV cabinet creaks.	_	Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction
A "boom" sound is heard when the TV is turned on.	_	The TV's demagnetizing function is working. This does not indicate a malfunction.

Identifying parts and controls

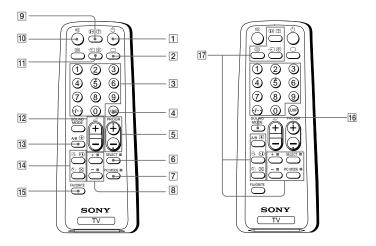
Refer to the pages indicated in parentheses () for details.

Front panel



- 1 (main power) button (12)
- 2 PROGR +/- (program) buttons (12)
- 3 -/- (volume) buttons (12)
- 4 🕣 (TV/video) button (13)
- 5 AUTO PROGR (program) button (5)
- 6 SELECT button (10)
- 7 (headphone) jack

Remote Control



- 1 () (power) button (12) 2 (TV) button (13)
- 3 Number buttons (12)
- 4 JUMP button (13)
- 5 PROGR +/- buttons (12)
- 6 SELECT button (10)
- 7 PIC MODE button (15)
- 8 +/- buttons (10)
- 9 (display) button (13)
- 10 × (muting) button (13)
- 11 (video) button (13)
- 12 \(\sim +/- \) (volume) buttons (12)
- 13 A/B button
 - (KV-XF51M65 only)
- 14 Timer setting buttons (14)
 - (wake up timer) (sleep timer)
- 15 FAVORITE button (17)

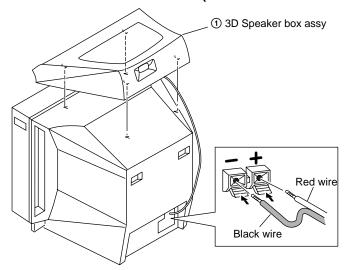
- 16 SOUND MODE button (15)
- 17 Teletext operation buttons (KV-XF51M65 only)
 - (text)
- (enlarge)
 - (?) (reveal)
- (hold)
 - (index)

- (FASTEXT: red, green, yellow, blue)
- Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

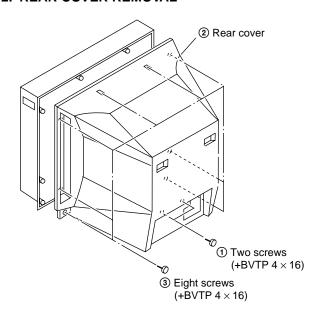
Label color	Button function
White	For general TV operations
Green	For Teletext operations

SECTION 2 DISASSEMBLY

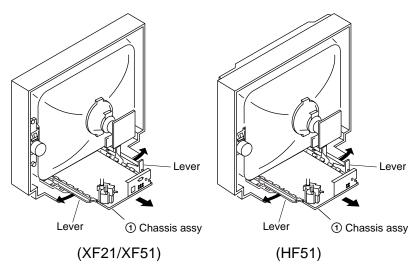
2-1. 3D SPEAKER BOX REMOVAL (KV-XF21M83/XF51M65 only)



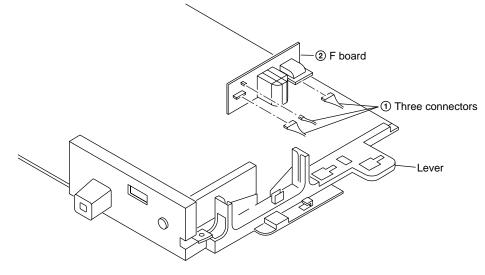
2-2. REAR COVER REMOVAL



2-3. CHASSIS ASSY REMOVAL



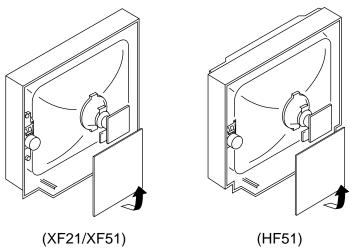
2-4. F BRACKET REMOVAL



KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

2-5. SERVICE POSITION

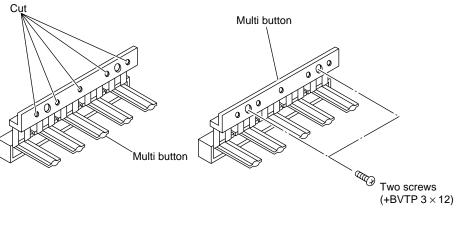
(Note: Remove F Bracket first.)



2-6. REPLACEMENT OF PARTS

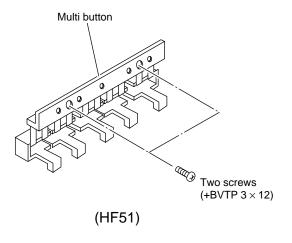
2-6-1. REPLACEMENT OF MULTI BUTTON

For replacement of the Multi Button (XF21/XF51), cut the welded portions from it exchange with the new part, and fix it with screws (+BVTP).



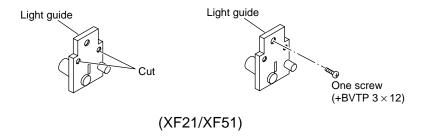
(XF21/XF51)

For replacement of the Multi Button (HF51), unscrew it to exchange with the new part, and fix it with screws (+BVTP).

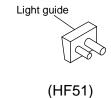


2-6-2. REPLACEMENT OF LIGHT GUIDE

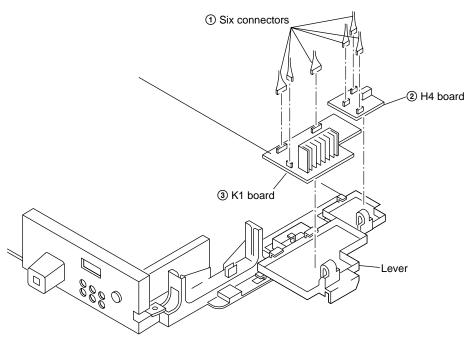
For replacement of the Light Guide (XF21/XF51), cut the welded portions from it, exchange with the new part, and fix it with screw (+BVTP).



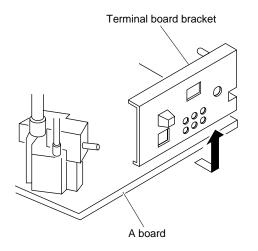
For replacement of the Light Guide (HF51), pull it out to exchange with the new part.



2-7. H4 AND K1 BOARD REMOVAL (KV-XF21M83/XF51M65 only)

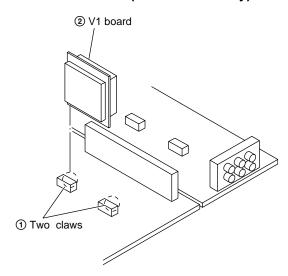


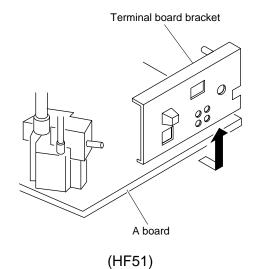
2-9. TERMINAL BRACKET REMOVAL



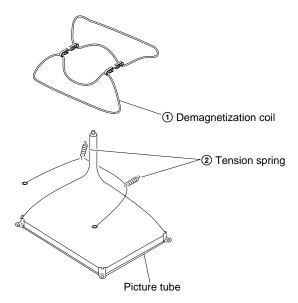
(XF21/XF51)

2-8. V1 BOARD REMOVAL (KV-XF51M65 only)

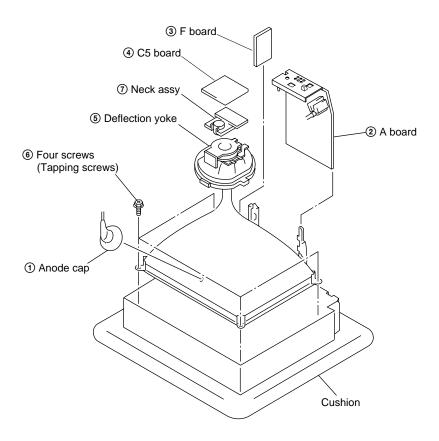




2-10. DEGAUSS COIL REMOVAL



2-11. PICTURE TUBE REMOVAL



KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

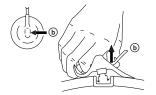
•REMOVAL OF ANODE-CAP

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

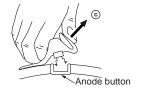
•REMOVING PROCEDURES



1 Turn up one side of the rubber cap in the direction indicated by the arrow a.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **b**.

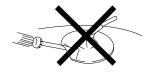


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⑥.

HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.





SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Perform the adjustments in the following order:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.

 $\left. \begin{array}{c} Contrast \\ Brightness \end{array} \right\} \ normal$

- 2. Position neck assy as shown in Fig3-2.
- 3. Set the pattern generator raster signal to a green raster.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to red and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
- If the beam does not land correctly in all the corners, use a magnet to adjust it.

(See Figure 3-4.)

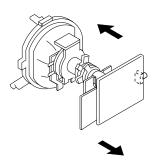
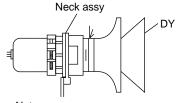


Fig. 3-1



Note: Neck Assy is exactly behind DY (no gap between Neck Assy and DY)

Fig. 3-2

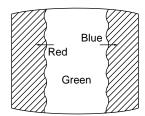


Fig. 3-3

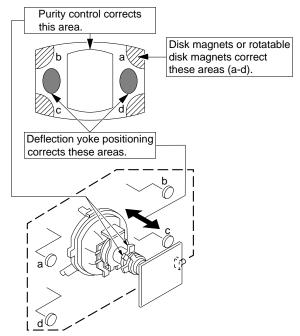


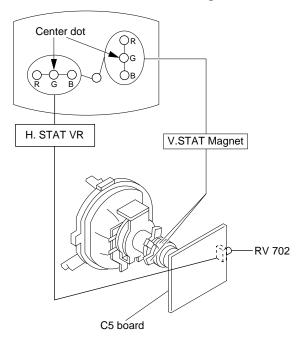
Fig. 3-4

3-2. CONVERGENCE

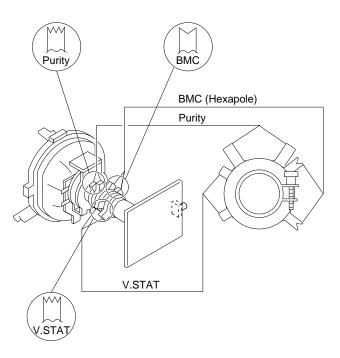
Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

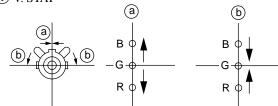
(1) Horizontal and Vertical Static Convergence



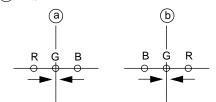
(Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.



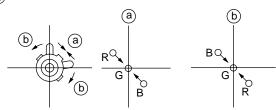
1 V. STAT



2 H. STAT VR

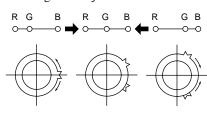


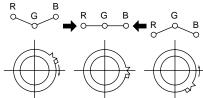
3



4 BMC (Hexapole) Magnet.

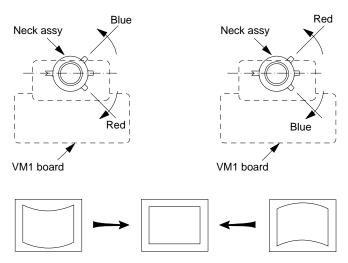
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.





KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

- 4 Y separation axis correction magnet adjustment.
- 1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
- 2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

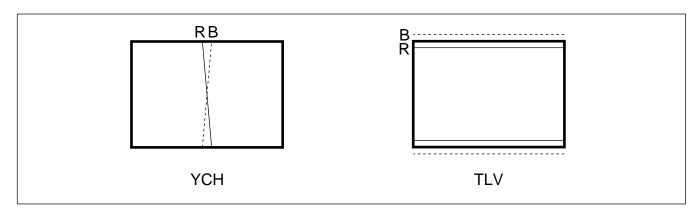


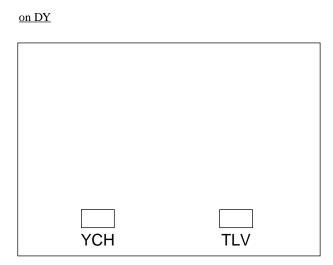
Note

- 1. The Red and Blue magnets should be equally far from the horizontal center line.
- 2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

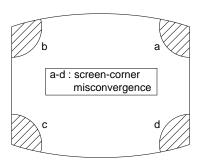
(2) Dynamic Convergence Adjustment Preparation:

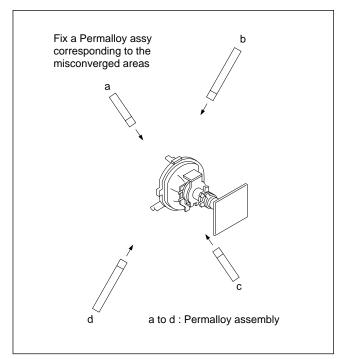
 Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence





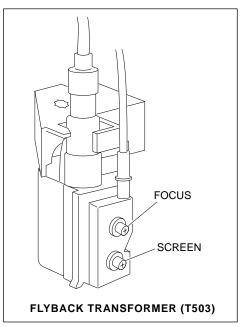
(3) Screen-corner Convergence





3-3. FOCUS ADJUSTMENT

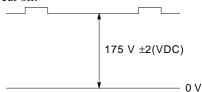
Adjust FOCUS control on the flyback transformer for the best focus.



3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C5 board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below
- 5) Adjust G2 (Screen) on FBT until picture shows the point before cut-off.

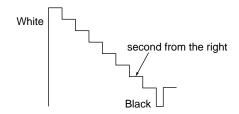


2. WHITE BALANCE ADJUSTMENT

- Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the PICTURE to minimum.
- 4) Select GCT (WHB 4) and BCT (WHB 5) with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 1) and BDR (WHB 2) with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 7) Write into the memory by pressing MUTING then 0.

3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black to white from the pattern generator.
- 3) BRIGHTNESS 50%. PICTURE MINIMUM
- 4) Select SBR (WHB7) with 1 and 4, and adjust SBR (WHB7) level with 3 and 6 so that the second stripe from the right is dimly lit.



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RM-952

RM-952

RM-915

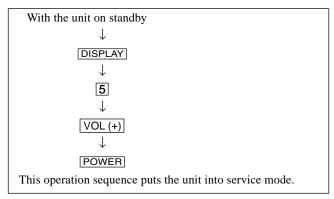
RM-95

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-952 for XF21/XF51 and RM-915 for HF51 that comes with this unit.

a. ENTERING SERVICE MODE



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander), then press POWER button again, hereupon it becomes TV mode.

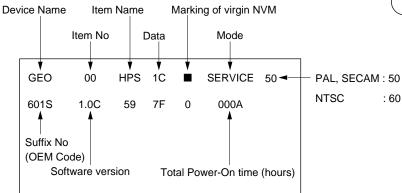
c. METHOD OF WRITE INTO MEMORY

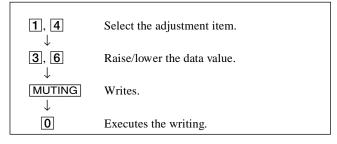
- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustment.
- 3) Press MUTING button and it will indicate WRITE on the screen.
- 4) Press 0 button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is:





7, 0 All the data becomes the values in memory.

8, 0
All user control goes to the standard state.
5, 0
Service data initialization (Be sure not to use usually.)

2, **0** Write 50Hz adjustment data to 60Hz, or vice versa.





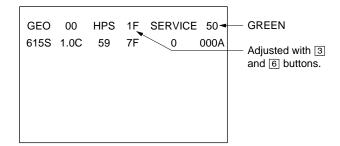
RM-952 RM-915

4-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

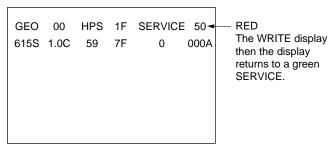
This explanation uses H-Position as an example.

- 1. Select "GEO 00 HPS" with the **1** and **4** buttons.
- 2. Raise/lower the data with the **3** and **6** buttons.
- 3. Select the optimum state. (The standard is 1F for PAL reception.)
- 4. Write with the MUTING button. (The display changes to WRITE.)
- 5. Execute the writing with the ① button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)



GEO 00 HPS 1F WRITE 50 GREEN 615S 1.0C 59 7F 0 000A

Written with MUTING



Write executed with 0

Use the same method for all Items. Use $\boxed{1}$ and $\boxed{4}$ to select the adjustment item, use $\boxed{3}$ and $\boxed{6}$ to adjust, write with $\boxed{\text{MUTING}}$, then execute the write with $\boxed{0}$.

Note: 1. In WRITE, the data for all items are written into memory together.

2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

Adjustment Item Table (Except KV-XF21N90)

Device	Funct	ionality	Note	Data Range	Function	Note for	Register	Slava	RAM Address
Name	No	Name				Different Data	No. (bit)	Address	(bit)
GEO	0	HPS	7	3F	H Position	50/60HZ	12 (7-2)	CXA2130S(88H)	82 (7-2)
	1	HSZ	1F	3F	H Size	50/60HZ	11 (7-2)	, ,	81 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60HZ	13 (7-2)		83 (7-2)
	3	TLT	7	0F	Trapezium	50/60HZ	15 (7-4)		85 (7-4)
	4	VPS	1F	3F	V Position	50/60HZ	0F (7-2)		7F (7-2)
	5	VSZ	1F	3F	V Size	50/60HZ	0E (7-2)		7E (7-2)
	6	sco	7	0F	S Correction	50/60HZ	10 (7-4)		80 (7-4)
	7	VLN	7	0F	V Linearity	50/60HZ	10 (3-0)		80 (3-0)
	8	BOW	7	0F	AFC Bow	50/60HZ	16 (7-4)		86 (7-4)
	9	AGL	7	0F	AFC-Angle	50/60HZ	16 (3-0)		86 (3-0)
	10	UPN	1F	3F	Upper Pin	50/60HZ	14 (7-2)		84 (7-2)
	11	LPN	1F	3F	Lower Pin	50/60HZ	18 (7-2)		88 (7-2)
	12	HBL	0	1 1	H Blanking on/off		18 (1)		67 (1)
	13	LBL	7	0F	Left H Blanking	50/60HZ	17 (7-4)		87 (7-4)
	14	RBL	7	0F	Right H Blanking	50/60HZ	17 (3-0)		87 (3-0)
WHB	0	RDR	2A	3F	R Drive	DYNAMIC/others	09 (7-2)	CXA2130S(88H)	8F (7-2)
	1	GDR	2A	3F	G Drive	DYNAMIC/others	0A (7-2)	, ,	90 (7-2)
	2	BDR	2A	3F	B Drive	DYNAMIC/others	0B (7-2)		91 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/others	07 (3-0)		93 (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/others	08 (7-4)		94 (7-4)
	5	BCT	7	0F	B Cutoff	SECAM/others	08 (3-0)		94 (3-0)
	6	BMN	15	1F	Brightness Minimum Data				97
	7	SBR	28	3F	Sub Brightness Control				98
SAJ	T _0 _	PMX	33	3F	Picture Maximum Data			CXA2130S(88H)	96
	1	SHU	8	0F	Sub Hue Control	TV/Video		, ,	99
	2	SSH	3	0F	Sub Sharpness Control	TV/Video			9A
	3	SCL	1F	3F	Sub Color Control	NTSC/others			9B
	0	EHT		0F	EHT Comp	50/60HZ	15 (3-0)	CXA2130S(88H)	85 (3-0)
-	1	GMA	2	03	Gamma Correction	Refer NVM Map A4	0B (1-0)		1A3 (1-0)
	2	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		8C (3-0)
	3	SST	1	03	SECAM ID Start Position		1B (1-0)		6A (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		6A (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		6B (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		6B (7-2)
	7	DYC	0	1	Dynamic Color on/off		0A (1)		59 [`] (1) [′]
	8	ABL	1	1	ABL Mode Switching (STANDARD A	LWAYS 0)	09 (1)		58 (1)
	9	VTH	1	1	ABL Detection Vth Switching		09 (0)		58 (0)
	10	SFO	1	1 1	FO Switching for Sharpness	NTSC/others	05 (1)		198 (1)
	11	DCX	1	1	DC Trans. Ratio Switching		06 (1)		55 (1)
	12	SHT	1	1 1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		199 (0)

138 (6-0)

166 (7-0)

1A7 (7-0)

10 (7-0)

21 (10-3)

0000 (15-4)

16

17

18

NIP

ERR

VOL

6D

50

6D

7F

FF

FF

NICAM Prescale

Auto FM switch Threshold

Loud Speaker gain 7000h to 7ffoh

Adjustment Item Table

Device	Functi	ionality	Note	Data Range	Function	Note for	Register	Slava	RAM Address
Name	No	Name				Different Data	No. (bit)	Address	(bit)
TXT	0	TXH	1	3	Teletext Horizontal Position			(58H)	18D (1-0)
	1	TXV	0	3	Teletext Vertical Position				18D (6-4)
ОРМ	0	OSH	0A	3F	OSD H Position	Option-Misc			AC (7-2)
	1	COM	0	03	Comb Selection				A5 (7-6)
	2	APC	1	1 1	APC Switch				A4 (5)
	3	TSY	0	03	TV Sys at Auto TV Sys				A4 (4-3)
	4	MUT	0	1 1	No Signal Mute				A4 (0)
	5	AFM	0	1	Auto FM switch				A4 (1)
	6	RFB	0	3	C-BPF Control				A5 (5-4)
	7	TVO	0	7	Tilt to V-Angle Offset				A5 (2-0)
	8	DBL	00	11	Disable Blueback Function	L			A4 (2)
ОРВ	0	OP1	0	FF	Optional Bits 1 (see below)	Option-Bits			45
	1	OP2	0	FF	Optional Bits 2 (see below)				46
	2	OP3	0	FF	Optional Bits 3 (see below)				47

NOTE

- shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.

In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

Adjustment Item Table (KV-XF21N90)

Device	Funct	ionality	Note	Data Range	Function	Note for	Register	Slava	RAM Address
Name	No	Name				Different Data	No. (bit)	Address	(bit)
GEO	0	HPS	7	3F	H Position	50/60HZ	12 (7-2)	CXA2130S(88H)	84 (7-2)
	1	HSZ	1F	3F	H Size	50/60HZ	11 (7-2)	,	83 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60HZ	13 (7-2)		85 (7-2)
	3	TLT	7	0F	Trapezium	50/60HZ	15 (7-4)		87 (7-4)
	4	VPS	1F	3F	V Position	50/60HZ	0F (7-2)		81 (7-2)
	5	VSZ	1F	3F	V Size	50/60HZ	0E (7-2)		80 (7-2)
	6	sco	7	0F	S Correction	50/60HZ	10 (7-4)		82 (7-4)
	7	VLN	7	0F	V Linearity	50/60HZ	10 (3-0)		82 (3-0)
	8	BOW	7	0F	AFC Bow	50/60HZ	16 (7-4)		88 (7-4)
	9	AGL	7	0F	AFC-Angle	50/60HZ	16 (3-0)		88 (3-0)
	10	UPN	1F	3F	Upper Pin	50/60HZ	14 (7-2)		86 (7-2)
	11	LPN	1F	3F	Lower Pin	50/60HZ	18 (7-2)		8A (7-2)
	12	HBL	0	1	H Blanking on/off		18 (1)		69 [°] (1)
	13	LBL	7	0F	Left H Blanking	50/60HZ	17 (7-4)		89 (7-4)
	14	RBL	7	0F	Right H Blanking	50/60HZ	17 (3-0)		89 (3-0)
WHB		RDR	25/2A	3F		DYNAMIC/others	09 (7-2)	CXA2130S(88H)	91 (7-2)
	1	GDR	2A	3F	G Drive	DYNAMIC/others	0A (7-2)	, ,	92 (7-2)
	2	BDR	2A	3F	B Drive	DYNAMIC/others	0B (7-2)		93 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/others	07 (3-0)		95 (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/others	08 (7-4)		96 (7-4)
	5	ВСТ	7	0F	B Cutoff	SECAM/others	08 (3-0)		96 (3-0)
	6	BMN	15	1F	Brightness Minimum Data		, ,		99
	7	SBR	28	3F	Sub Brightness Control				9A
SAJ		PMX	37	3F	Picture Maximum Data			CXA2130S(88H)	
	1	SHU	8	0F	Sub Hue Control	TV/Video		, ,	9B
	2	SSH	03/08	0F	Sub Sharpness Control	TV/Video			9C
	3	SCL	1F	3F	Sub Color Control	NTSC/others			9D
	0	EHT	07/07	0F	EHT Comp	50/60HZ	15 (3-0)	CXA2130S(88H)	87 (3-0)
	1	GMA	*	03	Gamma Correction	Refer NVM Map A4	0B (1-0)	,	1A4 (1-0)
	2	YDL	08/09/08	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		8E (3-0)
	3	SST	3	03	SECAM ID Start Position		1B (1-0)		6C (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		6C (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		6D (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		6D (7-2)
	7	DYC	1	1	Dynamic Color on/off		0A (1)		5B (1)
	8	ABL	1	1	ABL Mode Switching (STANDARD A	LWAYS 0)	09 (1)		5A (1)
	9	VTH	1	1	ABL Detection Vth Switching	,	09 (0)		5A (0)
	10	SFO	01/01	1	FO Switching for Sharpness	NTSC/others	05 (1)		199 (1)
	11	DCX	1	1	DC Trans. Ratio Switching		06 (1)		57 (1)
	12	SHT	01/01	1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		19A (0)

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

Adjustment Item Table

Device	Funct	ionality	Note	Data Range	Function	Note for	Register	Slava	RAM Address
Name	No	Name				Different Data	No. (bit)	Address	(bit)
VP	13	HDW	0	1	H Drive Pulse Width Switch		00 (6)		51(6)
	14	AFC	1	03	AFC Gain Control	TV/Video	0F (1-0)		8F (1-0)
	15	HOS	7	0F	H Oscillation		0C (7-4)		5D (7-4)
	16	HSS	0	1 1	Slice Level of H Sync Sep.		0D (1)		5E (1)
	17	VSS	0	1 1	Slice Level of V Sync Sep.		0D (0)		5E (0)
	18	HMS	0	1	Macro Vision C/m off/on	50/60Hz	0E (0)		80 (0)
	19	YUV	0	1	YUV Switch Control		01 (0)		52 (0)
	20	CDV	1	3	CD mode for Video/ RF no signal		0D (5-4)		1A2 (5-4)
	21	RON	1	1 1	R ON	not memorized	01 (3)		52 (3)
	22	GON	1	1	G ON	not memorized	01 (2)		52 (2)
	23	BON	1	1	B ON	not memorized	01 (1)		52 (1)
	24	PON	1	1 1	P ON	not memorized	00 (7)		51 (7)
	25	BLK	0	1	BLK Off		12 (0)		63 (0)
	26	VMC	0	1	VM Off		13 (0)		64 (0)
AP	0	INF	0	3F	Input Attenuation When surround on		00 (5-0)	TDA7429	1A0 (5-0)
	1	INS	0	3F	Input Attenuation When surround off				1A1 (5-0)
	2	PH1	0	3	Phase 1 Register Selection		02		78 (1-0)
	3	PH2	0	3	Phase 2 Register Selection				78 (3-2)
	4	PH3	0	3	Phase 3 Register Selection				78 (5-4)
	5	PH4	0	3	Phase 4 Register Selection				78 (7-6)
	6	BCS	2	3	Bass Center Shift		#4 (3-0)		1A9 (1-0)
	7	TCS	2	3	Treble Center Shift		#5 (3-0)		1AA (1-0)
L	8	TRF	2_	3	RF Treble Offset		#5 (3-0)	L	1AA (5-4)
MSP	0	WST	15	FF	W/G Stereo Threshold			MSP3415D(84H)	157 (7-0)
	1	WBT	EA	FF	W/G Bilingual Threshold				158 (7-0)
	2	WLL	5	FF	W/G Monaural Threshold				159 (7-0)
	3	WAC	0	0F	W/G Agreement Count				15A (3-0)
	4	WDL	30	FF	W/G Search Delay				15B (7-0)
	5	NDL	20	FF	NICAM Search Delay				15C (7-0)
	6	SDL	10	FF	Stereo status Read Delay				15D (7-0)
	7	AGC	1	1 1	AGC Switch Auto/Constant		BB (7)		108 (7)
	8	REL	28	3F	AGC Gain at Constant Mode		BB (6-1)		108 (6-1)
	9	CRM	0	1 1	Carrier muting on/off		BB (9)		107 (1)
	10	ACO	1	1	Audio Clock out on/off		83 (5)		10C (5)
	11	FP	1B	7F	FM Prescale for non-M system		0E (7-0)		16C (6-0)
	12	FPM	32	7F	FM Prescale for M system		0E (7-0)		16D (6-0)
	13	FH	36	7F	FM Prescale for HDEV		0E (7-0)		16E (6-0)
	14	FHM	65	7F	FM Prescale for HDEV and M		0E (7-0)		16F (6-0)
	15	WGP	2A	7F	W/G Prescale		0E (7-0)		170 (6-0)
	16	NIP	6D	7F	NICAM Prescale		10 (7-0)		138 (6-0)
	17	ERR	50	FF	Auto FM switch Threshold		21 (10-3)		166 (7-0)
	18	VOL	6D	FF	Loud Speaker gain 7000h to 7ffoh		0000 (15-4)		1A8 (7-0)

Adjustment Item Table

Device	Funct	ionality	Note	Data Range	Function	Note for	Register	Slava	RAM Address
Name	No	Name				Different Data	No. (bit)	Address	(bit)
TXT	0 1	TXH TXV	1 0	3 3	Teletext Horizontal Position Teletext Vertical Position			(58H)	18D (6-4) 18D (1-0)
OPM	0 1 2 3 4 5 6 7	OSH COM APC TSY MUT AFM RFB TVO DBL	OA 0 1 0 1 0 0 0 0 0 0 0	3F 03 1 03 1 1 3 -	OSD HPosition Comb Selection APC Switch TV Sys at Auto TV Sys No Signal Mute Auto FM switch C-BPF Control Tilt to V-Angle Offset Disable Blueback Function	Option-Misc			AE (7-6) AD (5) AD (4-3) AD (0) AD (1) AE (5-4) A5 (2-0) A4 (2)
ОРВ	0 1 2	OP1 OP2 OP3	F1 1 28	FF FF FF	Optional Bits 1 (see below) Optional Bits 2 (see below) Optional Bits 3 (see below)	Option-Bits			47 48 49

NOTE

- shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.

In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65

RM-952 RM-952 RM-952 RM-952

ITEM INFORMATION.

No. OPB0 OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	М
KV-HF51P50	1	1	0	1	1	0	0	0
KV-XF21M80(E)	1	1	1	1	1	1	1	1
KV-XF21M80(ME)	1	1	1	1	1	1	1	1
KV-XF21M80 (Vietnam)	1	1	1	1	1	1	1	1
KV-XF21M83	1	1	1	1	1	1	1	1
KV-XF21N90	1	1	1	1	0	0	0	1
KV-XF51M65	1	1	1	1	1	1	1	1

No. OPB1 OP2

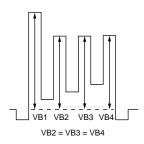
Item	TOP	NICAM	HDEV	Thai Bil	Dis Fav	DVD Input	AV I	nput
KV-HF51P50	1	0	1	0	0	0	1	0
KV-XF21M80(E)	1	0	1	0	0	0	1	0
KV-XF21M80(ME)	1	0	1	0	0	0	1	0
KV-XF21M80 (Vietnam)	1	0	1	0	0	0	1	0
KV-XF21M83	1	0	1	0	0	0	1	0
KV-XF21N90	0	0	0	0	0	0	1	0
KV-XF51M65	1	1	1	0	0	0	1	0

No. OPB2 OP3

Item	Pic Rot	2199 Curve	Auto PIC	Auto TV sys	US ST	AV Mono	11 KEY	Color SW
KV-HF51P50	0	0	0	0	0	0	0	0
KV-XF21M80(E)	1	0	0	0	0	0	0	0
KV-XF21M80(ME)	0	0	0	0	0	0	0	0
KV-XF21M80 (Vietnam)	1	0	0	0	0	0	0	0
KV-XF21M83	0	0	0	0	0	0	0	0
KV-XF21N90	1	0	1	0	1	1	0	0
KV-XF51M65	0	0	0	0	0	1	0	0

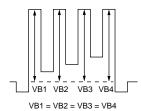
4-3. PICTURE QUALITY ADJUSTMENTS SUB COLOR ADJUSTMENT

- 1. Input a PAL color-bar.
- Set to the following condition:
 PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
- 3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
- 4. Set to Service Mode and select SAJ 3 'SCL' with 1 and 4 of the commander then adjust to VB2=VB3=VB4 with 3 and 6.
- 5. Press $\boxed{\text{MUTING}} \rightarrow \boxed{\textbf{0}}$ of the commander to write the data.
- 6. Adjust SAJ 3 'SCL' as step 2 to 5 when receiving NTSC colorbar.



SUB HUE ADJUSTMENT

- 1. Select Video 1.
- 2. Input a NTSC color-bar, video into Video 1.
- Set the following condition:
 PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
- 4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
- 5. Select SAJ 1 'SHU' with 1 and 4 of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with 3 and 6.



6. Press $\boxed{\text{MUTING}} \rightarrow \boxed{0}$ of the commander to write the data.

BELL FILTER ADJUSTMENT

- 1. Input SECAM color-bar signal.
- 2. Connect the dual-trace oscilloscope to the pin (9) (R-Y) of CN303 (not mounted).
- 3. Adjust SERVICE MODE, ITEMS 'SBF' as shown below.



4-4. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (μ -COM) to the following new IC at the same time.

 $IC001(\mu\text{-}CON)$:CXP86449-614S (KV-XF21M80(ME))

CXP86449-615S (Except KV-XF21M80(ME) /XF21N90)

CXP86449-618S (KV-XF21N90)

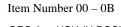
- 1. Enter to Service Mode.M
- 2. Press commander buttons **5** and **0** (Data Initialize), and **2** and **0** (Data Copy) to initialize the data.
- 3. Call each item number and check if the respective screen shows the normal picture.

In cases where items are not well adjusted, rectify the items with fine adjustment.

Write the data per each item number ($\boxed{\text{MUTING}} + \boxed{0}$).

- 4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons 3 and 6.
- Press commander buttons 8 and 0 (Test Normal) to return to the data that was set on the shipment from the factory. (This will also cancel Service Mode.)

4-5. PICTURE DISTORTION ADJUSTMENT

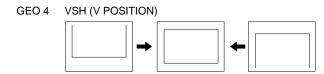


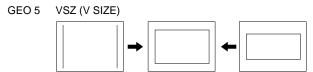






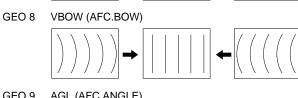


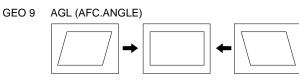




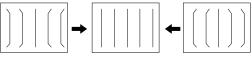










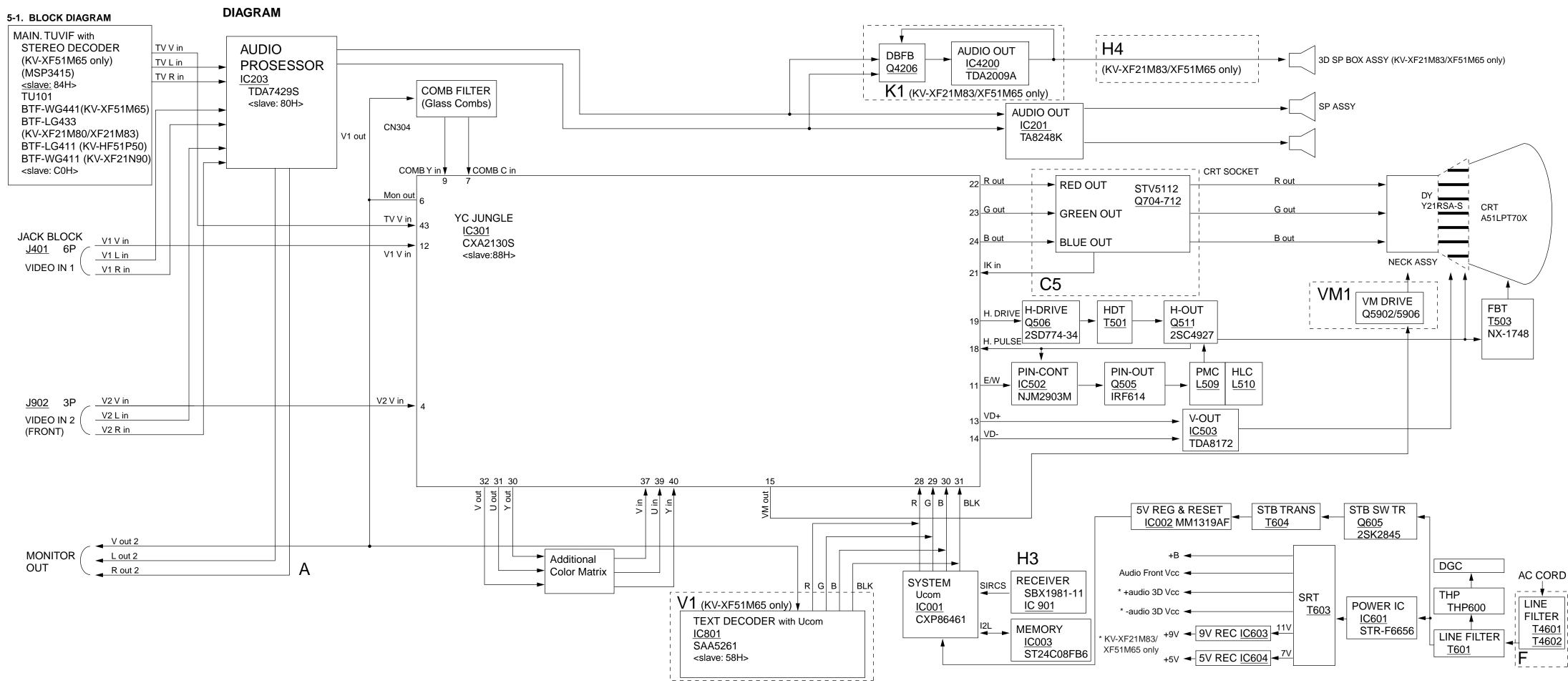


RM-952 RM-952 RM-952 RM-915 RM-952 **MEMO**

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65

- 69 -

SECTION 5



- 68-

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-915 RM-952

SECTION 6 EXPLODED VIEW

NOTE:

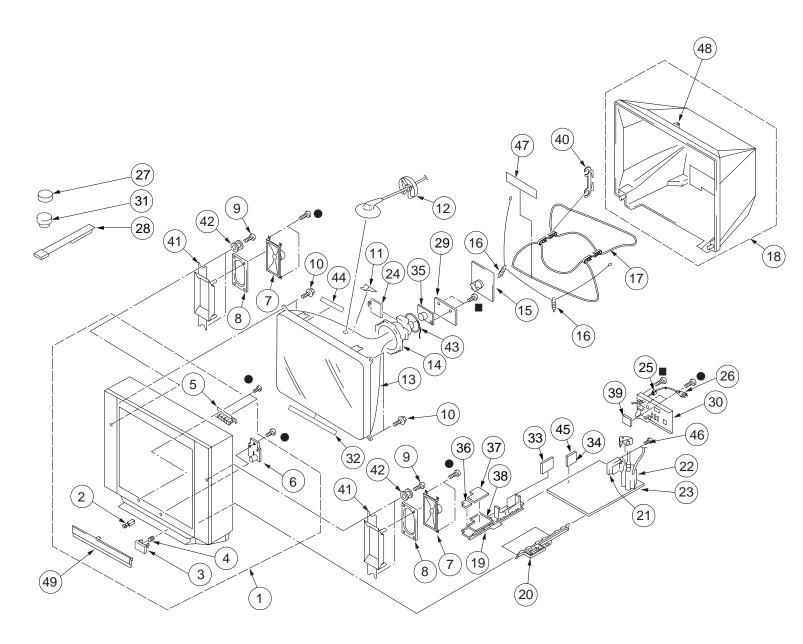
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark $ext{$\triangle$}$ are critical for safety. Replace only with part number specified.

6-1. CHASSIS (Except KV-HF51P50)

- ●: BVTP3×12 7-685-648-79
- ■: BVTP4 × 16 7-685-663-71



TLI.I	NO. PART NO.	<u>DESCRIPTION</u> <u>REMARK</u>	
(KV-	XF21M80(E/ME	E))	
1	X-4036-788-1	BEZNET ASSY 2-6, 49	
2	4-047-464-01	CATCHER, PUSH	
3	4-070-137-01	BUTTON, POWER	
4	4-036-405-41	SPRING, COMPRESSION	
5	4-070-135-01		
6	* 4-070-136-01	GUIDE, LIGHT	
7	1-529-125-11	•	
		,	
8	* 4-069-797-31		
9 10	4-302-404-03 4-365-808-01	, , ,	
	. 505 000 01	Send (c), marave	
11	4-046-600-11	*	
12	* 3-704-372-41		
13	△ 8-738-809-05		
14	8-451-505-11	,	
15	* A-1331-959-A	A C5 BOARD, MOUNTED	
16	4-369-318-61		
17	△ 1-416-946-11	COIL, DEMAGNETIC	
18	⚠ X-4036-465-2	2 REAR COVER ASSY	
19	* 4-067-189-01	PWB(L), GUIDE (KV-XF21M80(E))	
	* 4-070-139-01	PWB(L), GUIDE (KV-XF21M80(ME))	
20	* 4-067-187-01	PWB(R), GUIDE (KV-XF21M80(E))	
	* 4-070-138-01	PWB(R), GUIDE (KV-XF21M80(ME))	
21	8-598-449-01	TUNER, FSS BTF-LG433	
22	△ 1-453-293-11	•	3 A /
23		A A BOARD, COMPLETE (KV-XF21M80(E))	<i>)</i>
23		A A BOARD, COMPLETE (KV-XF21M80(E))	
24	4-057-714-01		
25	△ 4-022-115-21		
26		CORD, POWER (WITH CONNECTOR) 2.5A/250V	7
			v
27	1-452-032-00	MAGNET,DISC	/
27 28	1-452-032-00 4-051-736-21	MAGNET,DISC PIECE A(90), CONV. CORRECT	V
	1-452-032-00 4-051-736-21	MAGNET,DISC	V
28	1-452-032-00 4-051-736-21	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED	V
28 29 30	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL	V
28 29	1-452-032-00 4-051-736-21 * A-1342-492-A	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B	v
28 29 30 31 32	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET	v
28 29 30 31 32 33	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED	,
28 29 30 31 32	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS	V
28 29 30 31 32 33 34 35	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2	V
28 29 30 31 32 33 34 35	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2	V
28 29 30 31 32 33 34 35 36 37	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS FOR THESE MODELS	V
28 29 30 31 32 33 34 35 36 37 38	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS FOR THESE MODELS FOR THESE MODELS	V
28 29 30 31 32 33 34 35 36 37 38 39	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS	V
28 29 30 31 32 33 34 35 36 37 38 39	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS	v
28 29 30 31 32 33 34 35 36 37 38 39 40	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT 4-064-883-11	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS HOLDER, DGC BAFFLE, SPEAKER	v
28 29 30 31 32 33 33 34 35 36 37 38 39 40	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS CONTROL OF THE SE MODELS FOR THESE MODELS FOR THESE MODELS FOR THESE MODELS CONTROL OF THE SE MO	v
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51 1-452-728-61	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS COLL, SPEAKER CUSHION (A) COIL, NA ROTATION (RT-154)	v
28 29 30 31 32 33 33 34 35 36 37 38 39 40	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51 1-452-728-61 4-069-652-51	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS COLUMN THESE MODELS FOR THESE MODELS FOR THESE MODELS COLUMN THESE MOD	v
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51 1-452-728-61 4-069-652-51	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS COLL, SPEAKER CUSHION (A) COIL, NA ROTATION (RT-154)	v
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 8-453-011-31 THIS IS NOT THIS IS NOT THIS IS NOT THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51 1-452-728-61 4-069-652-51 THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS COLUMN THESE MODELS FOR THESE MODELS FOR THESE MODELS COLUMN THESE MOD	v
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT 4-064-883-11 4-070-142-01 4-069-413-51 1-452-728-61 4-069-652-51 THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS NA299-S2 FOR THESE MODELS OF THESE MODELS FOR THESE MODELS FOR THESE MODELS FOR THESE MODELS OF THESE MODELS TORMING THESE MODELS OF THESE MODELS CUSHION (A) COIL, NA ROTATION (RT-154) CUSHION (HS BAND) FOR THESE MODELS	v
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	1-452-032-00 4-051-736-21 * A-1342-492-4 * 4-070-140-01 1-452-094-00 4-069-651-51 * A-1241-379-4 THIS IS NOT	MAGNET,DISC PIECE A(90), CONV. CORRECT A VM1 BOARD, MOUNTED BRACKET, TERMINAL CIRCULAR DISC MAGNET B BLOTTING SHEET A F BOARD, MOUNTED FOR THESE MODELS COLL, SPEAKER CUSHION (A) COIL, NA ROTATION (RT-154) CUSHION (HS BAND) FOR THESE MODELS	v

(KV-X	KF2	1M80(VIETN	JAM)/XF21M83/XF21N90/XF51M65)
1		,	BEZNET ASSY (KV-XF21M80(VIETNAM)) 2-6
			BEZNET ASSY (KV-XF21M83) 2-6
			BEZNET ASSY (KV-XF21N90) 2-6
		X-4036-832-1	
2		4-047-464-01	,
3			BUTTON, POWER
		4-067-183-01	· · · · · · · · · · · · · · · · · · ·
4		4-036-405-11	SPRING, COMPRESSION
5		4-067-181-01	BUTTON, MULTI
6	*	4-067-180-01	GUIDE, LIGHT
7		1-529-125-11	SPEAKER (13X7CM)
8	*	4-069-797-01	CUSHION, SPEAKER(S)
9		4-302-404-03	SCREW (WASHER HEAD) (+P 4X16) (KV-XF21N90/
		7 302 404 03	XF51M65 ONLY)
10		4-365-808-01	SCREW (5), TAPPING
			. (0),
11		4-046-600-11	SPACER, DY
12	*	3-704-372-41	HOLDER, HV CABLE (KV-XF21M80(VIETNAM)/
			XF21M83)
	*	4-047-349-41	HOLDER, HV CABLE (KV-XF21N90)
	*	4-047-349-01	HOLDER, HV CABLE (KV-XF51M65)
13	\triangle	8-738-812-05	PICTURE TUBE (A51LPT70X)
			(EXCEPT KV-XF21N90)
	<u>^</u>	8-738-809-05	
14	_		DEFLECTION YOKE (Y21RSA-S)
15	*		C5 BOARD, MOUNTED (KV-XF21M80(VIETNAM)/
13		11 1331 733 11	XF21M83))
	*	A 1331 0/1 A	C5 BOARD, MOUNTED (KV-XF21N90)
			C5 BOARD, MOUNTED (KV-XF51M65)
	•	A-1331-902-A	C3 BOARD, MOUNTED (KV-AF31M03)
16		4-369-318-61	SPRING, TENSION (EXCEPT KV-XF51M65)
		4-369-318-81	SPRING, TENSION (KV-XF51M65)
17	Λ	1-416-946-11	
		1-416-946-31	COIL, DEMAGNETIC (KV-XF21N90)
			REAR COVER ASSY (KV-XF21M80(VIETNAM)/
10		A-4030-403-2	XF21M83/XF21N90)
	A	X-4036-774-1	REAR COVER ASSY (KV-XF51M65)
19		4-067-189-01	, ,
20		4-067-187-01	PWB(R), GUIDE
20		4-00/-18/-01	FWB(R), GUIDE
21		8-598-449-01	TUNER, FSS BTF-LG433 (KV-XF21M80(VIETNAM)/
			XF21M83)
		8-598-477-00	TUNER, FSS BTF-WG411 (KV-XF21N90)
		8-598-451-00	TUNER, FSS BTF-WG441 (KV-XF51M65)
22	Λ	1-453-293-11	TRANSFORMER ASSY, FLYBACK (NX-1748//M3A4)
23			A BOARD, COMPLETE (KV-XF21M80(VIETNAM))
			A BOARD, COMPLETE (KV-XF21M80) (VIETNAM)) A BOARD, COMPLETE (KV-XF21M83)
			A BOARD, COMPLETE (KV-XF21M83) A BOARD, COMPLETE (KV-XF21M83)
			A BOARD, COMPLETE (KV-XF51M65)
24	•		
24 25	A	4-057-714-01 4-022-115-12	PIECE ASSY, TLH CORRECTION
25	∠!\	4-022-115-12	HOLDER, AC CORD
26	Λ	1-782-173-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V
			(KV-XF21M80(VIETNAM)/XF21M83)
	Æ	1-575-023-11	CORD, POWER (WITH CONNECTOR) 6A/250V
		1 373 023-11	(KV-XF21N90)
	A	1-574-062-52	CORD, POWER (WITH CONNECTOR) 2.5A/250V
	∠:\	1-374-002-32	
27		1 452 022 00	(KV-XF51M65)
27		1-452-032-00	MAGNET, DISC
28		4-051-736-21	PIECE A(90), CONV. CORRECT
29	*	A-1342-491-A	VM1 BOARD, MOUNTED
			(KV-XF21M80(VIETNAM)/XF21M83)
			VM1 BOARD, MOUNTED (KV-XF21N90) VM1 BOARD, MOUNTED (KV-XF51M65)

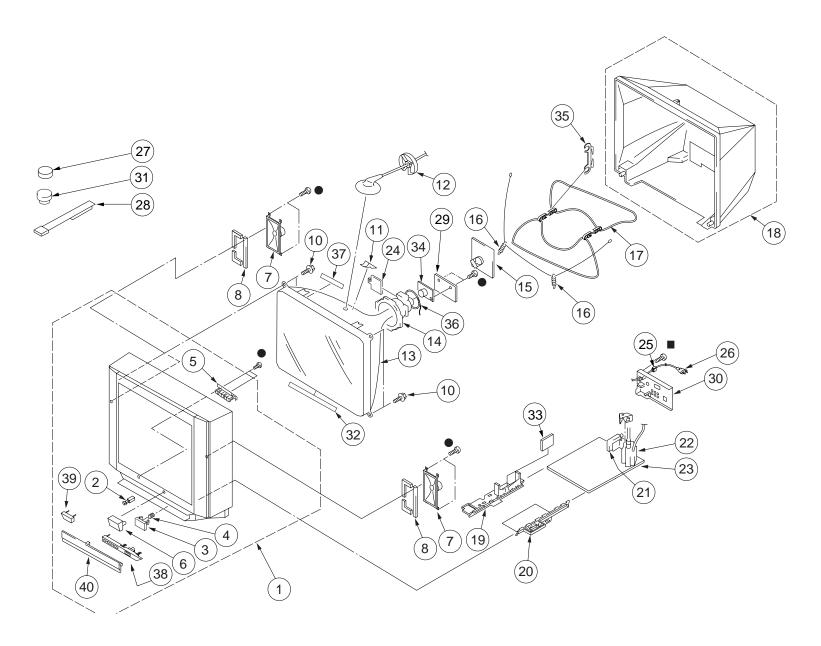
REF. NO.	PART NO.	DESCRIPTION	REMARK
30	4-067-167-0	1 BRACKET, TERMIN	AL (KV-XF21M80(VIETNAM))
	4-067-167-1	1 BRACKET, TERMINA	AL (KV-XF21M83/XF51M65)
	4-067-167-3		
31	1-452-094-0	00 CIRCULAR DISC M	AGNET B
32	4-069-651-0	2 BLOTTING SHEET ((EXCEPT KV-XF51M65)
33	* A-1241-378	-A F BOARD, MOUNTE	ED (KV-XF21M80(Vietnam)/
		XF21M83)	
	* A-1241-383	-A F BOARD, MOUNTE	ED (KV-XF21N90)
	* A-1241-381	-A F BOARD, MOUNTE	ED (KV-XF51M65)
34	* 4-068-953-0	1 BRACKET, V1 (KV-2	XF51M65 ONLY)
35	8-453-011-3	31 NA299-S2	
36	* A-1372-669	-A H4 BOARD, MOUN	ΓED (KV-XF21M83)
	* A-1372-681	-A H4 BOARD, MOUN	ΓΕD (KV-XF51M65)
37	* A-1380-614	-A K1 BOARD, MOUN	ΓΕD (KV-XF21M83)
	* A-1380-616	-A K1 BOARD, MOUN	ΓΕD (KV-XF51M65)
38	* 4-067-188-0	1 BRACKET,H4-K1 PCF	3 (KV-XF21M83/XF51M65ONLY)
39	* A-1388-255	-A J3 BOARD, MOUNT	ED (KV-XF21M83)
	* A-1388-256	-A J3 BOARD, MOUNT	ED (KV-XF51M65)
40	4-064-883-1	1 HOLDER, DGC	
41	4-067-184-0	1 BAFFLE, SPEAKER	
42	4-374-745-2	21 CUSHION (A) (KV-XI ONLY)	F21M80(VIETNAM)/XF51M65
43	1-452-728-6	,	N (RT-154)
44	4-069-652-0		D) (EXCEPT KV-XF51M65)
	4-069-652-4	,	, · · · · · · · · · · · · · · · · · · ·
45		,	ETE (KV-XF51M65 ONLY)
46	1-573-657-2	21 PLUG, F-PIN (KV-X	F21N90 ONLY)
47	4-069-653-4		,
48	4-038-462-0	O1 CAP, ANTENNA (KV	/-XF21N90 ONLY)
49	4-067-185-0	,	(V-XF21M80(Vietnam)
	4-069-984-1	,	
	4-069-984-0	1 DOOR CONTROL (F	(V-XF21N90)
	4-067-185-2	21 DOOR CONTROL (F	(V-XF51M65)

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

KV-HF51P50/XF21M80/XF21M83/XF21N90/XF51M65 RM-952 RM-952 RM-952 RM-915 RM-952

6-2. CHASSIS (FOR KV-HF51P50)

- ●: BVTP3×12 7-685-648-79
- ■: BVTP4 × 16 7-685-663-71

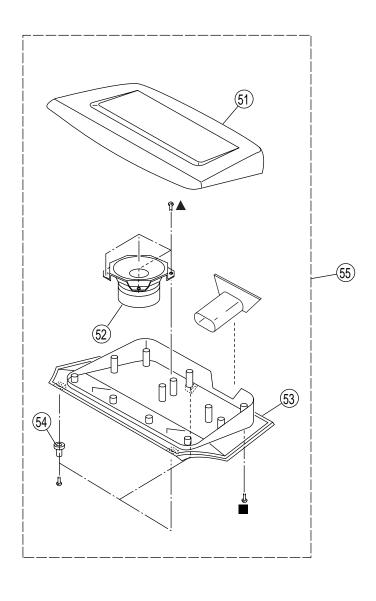


REF. NO. PART NO. DESCRIPTION REMARK (KV-HF51P50) X-4036-830-1 BEZNET ASSY 2-6, 38, 39, 40 4-047-464-01 CATCHER, PUSH 4-067-190-01 BUTTON, POWER 4-036-405-11 SPRING, COMPRESSION 4-067-196-01 BUTTON, MULTI 4-067-197-01 GUIDE, LIGHT 1-503-902-11 SPEAKER (15X6.5 CM) * 4-379-189-11 CUSHION, SPEAKER THIS IS NOT FOR THESE MODELS 4-365-808-51 SCREW (5), TAPPING 4-060-267-01 SPACER, DY * 4-047-349-01 HOLDER, HV CABLE 13 ⚠ 8-738-812-05 PICTURE TUBE (A51LPT70X) 8-451-505-11 DEFLECTION YOKE (Y21RSA-S) * A-1331-962-A C5 BOARD, MOUNTED 4-369-318-81 SPRING, TENSION ⚠ 1-416-946-11 COIL, DEMAGNETIC 4-067-189-01 PWB(L), GUIDE 4-067-187-01 PWB(R), GUIDE 8-598-447-00 TUNER, FSS BTF-LG411 22 <u>A 1-453-293-11 TRANSFORMER ASSY, FLYBACK (NX-1748//M3A4)</u> * A-1298-952-A A BOARD, COMPLETE 4-057-714-01 PIECE ASSY, TLH CORRECTION 1-452-032-00 MAGNET,DISC 4-051-736-21 PIECE A(90), CONV, CORRECT * A-1342-495-A VM1 BOARD, MOUNTED 4-067-167-01 BRACKET,TERMINAL 1-452-094-00 CIRCULAR DISC MAGNET B 4-069-651-01 BLOTTING SHEET * A-1241-381-A F BOARD, MOUNTED 8-453-011-31 NA299-S2 4-064-883-11 HOLDER, DGC 1-452-728-61 COIL, NA ROTATION (RT-154) 4-069-652-41 CUSHION (HS BAND)

6-3. 3D SPEAKER (KV-XF21M83/XF51M65 only)

▲: 7-685-661-71 SCREW BVTP 4 x 12

■: 7-685-663-71 SVREW BVTP 4 x 16



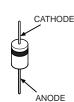
REF.	NO.	PART NO.	DESCRIPTION REMARK
51	*	4-067-201-01	3D WOOFER (UPPER)
52		1-505-937-21	SPEAKER (10CM)
53	*	4-067-199-01	3D WOOFER (LOWER)
54	*	4-068-528-01	FOOT
55		A-1501-446-B	BOX ASSY, SPEAKER (3D) (KV-XF51M65)
		A-1501-494-A	BOX ASSY, SPEAKER (3D) (KV-XF21M83)

4-067-191-01 PANEL (R) 4-067-193-01 PANEL (L) 4-067-192-81 DOOR, CONTROL

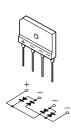
5-5. SEMICONDUCTORS

DIODE

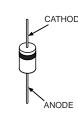
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D4SB60L



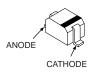
ERC04-06SE ERC06-15S RN4Z 31DQ06C5



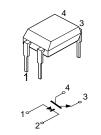
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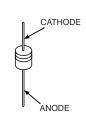
DTZ-TT11-15B MA111-TX RD10S-B RD5.1SB-T2 RD9.1S-B UDZS-TE17-6.8B 1SS355TE-17



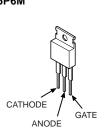
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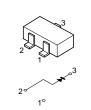
D1NS4 D1N20R RD20ES-B2 RD30ESB2 RD39ES-B2 RD6.8ES-B1 RD9.1ES-L2 1SS119-25



5P6M



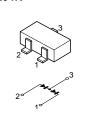
RD3.3M-B2 RD5.6M-B2



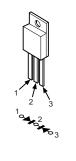
DAP202K



DA204K

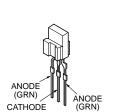


FMU-G26S



LED

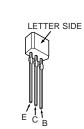
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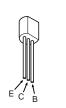
TRANSISTOR



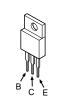




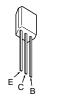
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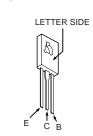
2SA1837 2SC4793 2SD2394-EF



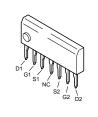
2SC2458-YGR 2SD2144S-UVW



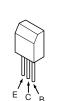
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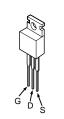
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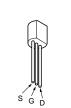
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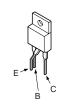
IRF614



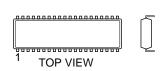
SK246-GR



2SK2845-LB102

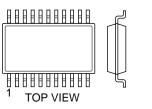


CXA2130S (64PIN) CXP86461-614S (64PIN) CXP86461-615S (64PIN) CXP86461-618S (64PIN) SAA5261 (52PIN) ST24C08FB6 (8PIN) TDA7429S (42PIN)



Dual In-line Package Pin 6~98





Single In -line Package Pin 6~98





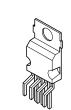
SBX1981-11(12)



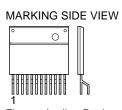
SE-135N



TDA8172



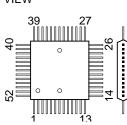
STR-F6654



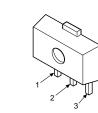
Zig-zag In -line Package Pin 6~99



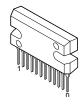
MARKING SIDE



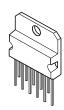
S-80743AL-A7-S



TA8223K TA8248K



TDA2009A



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RM-952

RM-915

SECTION 7 ELECTRICAL PARTS LIST

A (KV-HF51P50)

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- \bullet Items marked " * " are not stocked since they $\quad \bullet \quad$ All resistors are in ohms are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise
- F : nonflammable

CAPACITORS

• MF: μF, PF: μμF

COILS

 $\bullet \;\; MMH:mH,\, UH:\mu H$

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1298-952-A	A BOARD, COMP	LETE (KV-H	F51P50)		C108	1-126-933-11	ELECT	100MF	20%	16V
		******	******	******		C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
	* 4-055-304-01	HOLDER, LED									
	* 4-067-182-02	HOLDER, FBT				C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
	4-382-854-11	SCREW (M3X10),				C112	1-126-933-11	ELECT	100MF	20%	16V
	4-382-854-21	SCREW (M3X14),				C113	1-126-967-11	ELECT	47MF	20%	50V
	7-685-648-79	SCREW +BVTP	3X12 TYPE	2 IT-3		C114	1-126-967-11	ELECT	47MF	20%	50V
						C202	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
		<capacitor></capacitor>				C203	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
						C204	1-136-159-00	FILM	0.033MF	5%	50V
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C205	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C206	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C207	1-136-159-00	FILM	0.033MF	5%	50V
C007	1-126-933-11	ELECT	100MF	20%	16V						
C008	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C208	1-126-964-11	ELECT	10MF	20%	50V
						C209	1-126-964-11	ELECT	10MF	20%	50V
C010	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C210	1-126-933-11	ELECT	100MF	20%	16V
C012	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C211	1-126-941-11	ELECT	470MF	20%	25V
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C212	1-126-933-11	ELECT	100MF	20%	16V
C014	1-126-967-11	ELECT	47MF	20%	50V						
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C213	1-126-933-11	ELECT	100MF	20%	16V
						C214	1-126-942-61	ELECT	1000MF	20%	25V
C016	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C215	1-126-942-61	ELECT	1000MF	20%	25V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C216	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C019	1-104-665-11	ELECT	100MF	20%	25V	C217	1-126-964-11	ELECT	10MF	20%	50V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF		C210	1 126 167 00	FILM.	0.153/15	50/	5017
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50 V	C218	1-136-167-00	FILM FILM	0.15MF	5%	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C219 C220	1-136-167-00	ELECT	0.15MF 1000MF	5% 20%	50V 25V
C024 C026	1-163-227-11	CERAMIC CHIP	0.1MF	10%	25V	C220 C221	1-126-942-61 1-126-964-11	ELECT	1000MF	20%	50V
C020	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25 V 25 V	C221	1-126-965-11	ELECT	22MF	20%	50V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C223	1-120-703-11	LLLCI	221111	2070	30 v
C030	1-126-965-11	ELECT	22MF	20%	50V	C224	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
0000	1 120 700 11	LLLC I		2070		C225	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C226	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C227	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C228	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C229	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
						C230	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C231	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C232	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C048	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	G22.4	1 164 004 11	CED LANG CHID	0.13.65	100/	2517
C050	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C051	1 162 251 11	CED AMIC CHID	100DE	50/	501/	C235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C051 C053	1-163-251-11 1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C236 C238	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-251-11	CERAMIC CHIP CERAMIC CHIP	100PF 100PF	5% 5%	50V 50V	C238 C240	1-164-505-11 1-164-505-11	CERAMIC CHIP CERAMIC CHIP	2.2MF 2.2MF		16V 16V
C054	1-163-251-11	CERAMIC CHIP	100FF 100PF	5% 5%	50V	0240	1-10-1-303-11	CLIMINIC CHIF	2,21VII		10 4
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C241	1-164-346-11	CERAMIC CHIP	1MF		16V
C103	1 104 004-11	CLIVINIC CIII	J.11 11	10/0	23 1	C241	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C104	1-126-933-11	ELECT	100MF	20%	16V	C242	1-216-295-91	SHORT	0		-01
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C244	1-164-700-11	CERAMIC CHIP	0.68MF		16V
						C245	1-164-346-11	CERAMIC CHIP	1MF		16V

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RM-952

RM-915

RM-952

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C246	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C247	1-164-346-11	CERAMIC CHIP	1MF		16V	C506	1-107-638-11	ELECT	33MF	20%	160V
C248	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V	C507	1-161-830-00	CERAMIC	0.0047MF		500V
C249	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C250	1-216-295-91	SHORT	0			C510	1-102-112-00	CERAMIC	330PF	10%	50V
C251	1 162 017 00	CED 11 HC CHID	0.00473.65	100/	5017	C512	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C251	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C252	1-164-346-11	CERAMIC CHIP	1MF	100/	16V	C514	1-107-368-11	MYLAR	0.047MF	99%	200V
C253	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C254	1-126-965-11 1-163-037-11	ELECT CERAMIC CHIR	22MF 0.022MF	20% 10%	50V 50V	C518	1 104 665 11	ELECT	100MF	20%	10V
C255	1-103-037-11	CERAMIC CHIP	U.UZZIVII	1070	30 V	C518	1-104-665-11 1-102-212-00	CERAMIC	820PF	10%	500V
C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C519	1-102-212-00	ELECT	220MF	20%	16V
C259	1-126-933-11	ELECT	100MF	20%	16V	C522	1-126-933-11	ELECT	100MF	20%	16V
C264	1-164-505-11	CERAMIC CHIP	2.2MF	2070	16V	C523	1-102-002-00	CERAMIC	680PF	10%	500V
C265	1-164-505-11	CERAMIC CHIP	2.2MF		16V	0323	1 102 002 00	CLIUINIC	00011	1070	300 1
C301	1-126-935-11	ELECT	470MF	20%	16V	C524	1-126-967-11	ELECT	47MF	20%	50V
						C526	1-130-495-00	MYLAR	0.1MF	5%	50V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C527	1-102-820-00	CERAMIC	330PF	5%	50V
C303	1-126-964-11	ELECT	10MF	20%	50V	C528	1-162-134-11	CERAMIC	470PF	10%	2KV
C304	1-126-967-11	ELECT	47MF	20%	50V	C530	1-137-372-11	FILM	0.022MF	5%	50V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C531	1-126-961-11	ELECT	2.2MF	20%	50V
						C532	1-126-941-11	ELECT	470MF	20%	25V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C533	1-126-941-11	ELECT	470MF	20%	25V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C536	1-136-165-00	FILM	0.1MF	5%	50V
C309	1-126-957-11	ELECT	0.22MF	20%	50V	C537	1-126-969-11	ELECT	220MF	20%	50V
C310	1-126-963-11	ELECT	4.7MF	20%	50V						
C311	1-126-964-11	ELECT	10MF	20%	50V	C538	1-136-076-00	FILM	0.0085MF	3%	2KV
						C539	1-129-746-91	FILM	0.039MF	5%	400V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V	C540	1-136-171-00	FILM	0.33MF	5%	50V
C313	1-164-346-11	CERAMIC CHIP	1MF		16V	C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C316	1-126-967-11	ELECT	47MF	20%	50V	2550	4 40 5 220 00	3.77.45	0.43.00	100/	40077
C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C550	1-106-220-00	MYLAR	0.1MF	10%	100V
C210	1 162 021 11	CED AMIC CHID	0.01ME		501/	C551	1-126-960-11	ELECT	1MF	20%	50V
C318 C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V 50V	C552	1-162-116-00	CERAMIC	680PF 680PF	10%	2KV 2KV
C319	1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF		50V 50V	C553 C554	1-162-116-00 1-137-417-11	CERAMIC MYLAR	0.0047MF	10% 10%	200V
C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V 50V	C334	1-13/-41/-11	WIILAK	0.0047MI	1070	200 V
C324	1-163-003-11	CERAMIC CHIP	0.0047MF	10%	50V	C556	1-126-941-11	ELECT	470MF	20%	25V
C324	1 103 017 00	CLICALINIC CITI	0.00471411	1070	301	C557	1-126-941-11	ELECT	470MF	20%	25 V
C325	1-126-960-11	ELECT	1MF	20%	50V	C558	1-123-024-21	ELECT	33MF	2070	160V
C327	1-126-965-11	ELECT	22MF	20%	50V	C560	1-102-228-00	CERAMIC	470PF	10%	500V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C561	1-136-557-11	FILM	0.0033MF	5%	630V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C331	1-247-807-31	CARBON	100	5%	1/4W	C562	1-102-228-00	CERAMIC	470PF	10%	500V
						C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C332	1-126-963-11	ELECT	4.7MF	20%	50V	C565	1-107-655-11	ELECT	47MF	20%	250V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C566	1-102-244-00	CERAMIC	220PF	10%	500V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C567	1-115-521-11	FILM	0.82MF	5%	250V
C337	1-126-961-11	ELECT	2.2MF	20%	50V						
C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C568	1-102-228-00	CERAMIC	470PF	10%	500V
G2 + 1	1 115 040 41	CED LLCC CITE	0.001.75	1001	2517	C570	1-115-520-11	FILM	0.68MF	5%	250V
C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	C573	1-108-427-61	MYLAR	0.033MF	10%	200V
C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C574	1-107-636-11	ELECT MVI AD	10MF	20%	160V
C401	1-164-346-11	CERAMIC CHIP	1MF		16V	C576	1-130-495-00	MYLAR	0.1MF	5%	50V
C402	1-164-346-11	CERAMIC CHIP	1MF	100/	16V 50V	C577	1 106 205 00	MVI AD	0.15ME	100/	200V
C403	1-163-005-11	CERAMIC CHIP	470PF	10%	30 V	C577 C582	1-106-395-00 1-164-004-11	MYLAR CERAMIC CHIP	0.15MF 0.1MF	10% 10%	200 V 25 V
C404	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		1-104-004-11 1-104-705-51	FILM	0.1MF	20%	250V
C404 C405	1-105-005-11	ELECT	470PF 470MF	20%	30 V 16 V	C604	1-163-009-11	CERAMIC CHIP	0.1MF 0.001MF	10%	50V
C405	1-120-933-11	CERAMIC CHIP	1MF	2070	16V 16V	C004	1-105-007-11	CLICAIVIIC CHIF	0.001IVII	1070	JU Y
C407	1-164-346-11	CERAMIC CHIP	1MF		16V 16V	C605	₾ 1-127-942-51	CERAMIC	330PF	10%	250V
C408	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		△ 1-127-942-51	CERAMIC	330PF	10%	250V 250V
				- /0		C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C409	1-126-963-11	ELECT	4.7MF	20%	50V	C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C415	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C609	1-126-968-11	ELECT	100MF	20%	50V
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RM-952

RM-952



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C610	1-126-964-11	ELECT	10MF	20%	50V	CN306 *	1-564-510-11	PLUG, CONNECTOR 7P	
C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V	CN505	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V	CN506	4-352-844-01	PIN, LEAD, COATING	
C613	1-117-752-11	ELECT(BLOCK) 3	330MF	20%	450V	CN507 *	1-564-507-11	PLUG, CONNECTOR 4P	
C614	1-126-964-11	ELECT	10MF	20%	50V	CN601 *	1-580-843-11	PIN, CONNECTOR (POWER)	
C616	1-130-202-00	FILM	0.022MF	10%	400V	CN602 *	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C617	1-107-792-11	CERAMIC	100PF	5%	1KV		1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C618	1-125-893-11	FILM	680PF	3%	1.5KV	I .	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
C619	1-119-886-51	CERAMIC	470PF	10%	250V	CN901 *	1-564-507-11	PLUG, CONNECTOR 4P	
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V				
C621	1-102-114-00	CERAMIC	470PF	10%	50V			<diode></diode>	
C622	1-102-074-00	CERAMIC	0.001MF	10%	50V				
C623	1-104-665-11	ELECT	100MF	20%	25V	D001	8-719-988-61	DIODE 1SS355TE-17	
C624	1-104-331-11	CERAMIC	0.0022MF	10%	1KV	D005	8-719-988-61	DIODE 1SS355TE-17	
C627	1-102-002-00	CERAMIC	680PF	10%	500V	D006	8-719-988-61	DIODE 1SS355TE-17	
0.00	1 126 042 61	DI DOM	10003 55	200/	2517	D203	8-719-914-42	DIODE DA204K	
C628	1-126-942-61	ELECT	1000MF	20%	25V	D300	1-216-295-91	SHORT 0	
C629	1-126-964-11	ELECT	10MF	20%	50V	D201	0.710.000.61	DIODE 100255TE 17	
C630	1-123-024-21	ELECT	33MF	100/	160V	D301	8-719-988-61	DIODE 188355TE-17	
C633	1-104-999-11	MYLAR	0.1MF	10%	200V	D306	8-719-988-61	DIODE 188355TE-17	
C634	1-126-933-11	ELECT	100MF	20%	16V	D307	8-719-988-61	DIODE 188355TE-17	
0025	1-104-665-11	ELECT	100ME	200/	10V	D308	8-719-988-61 8-719-159-10	DIODE ISS355TE-17	
C635 C636	1-104-003-11	ELECT CERAMIC CHIP	100MF 0.047MF	20% 10%	50V	D309	8-719-139-10	DIODE RD5.1SB-T2	
C639	1-164-004-11	CERAMIC CHIP	0.047MF	10%	25V	D311	8-719-988-61	DIODE 1SS355TE-17	
C640	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V 25V	D311	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C641	1-104-004-11	CERAMIC	680PF	10%	500V	D312	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C0+1	1-102-002-00	CLIVAIVIIC	00011	1070	300 v	D313	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C642	1-126-943-11	ELECT	2200MF	20%	25V	D315	8-719-988-61	DIODE 1SS355TE-17	
C643	1-104-665-11	ELECT	100MF	20%	10V	D313	0 717 700 01	DIODE 1883331E 17	
C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV	D316	8-719-069-57	DIODE UDZS-TE17-6.8B	
C645	1-137-605-11	FILM	0.0022WH	10%	250V	D401	8-719-158-35	DIODE RD9.1SB	
C646	1-107-679-41	ELECT	10MF	20%	450V	D402	8-719-158-35	DIODE RD9.1SB	
C0+0	1 107 077 41	LLLCI	101111	2070	430 ¥	D402	8-719-158-35	DIODE RD9.1SB	
C647	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	D404	8-719-158-35	DIODE RD9.1SB	
C649	1-126-940-11	ELECT	330MF	20%	25V				
C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	D405	8-719-158-35	DIODE RD9.1SB	
C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D406	8-719-158-35	DIODE RD9.1SB	
C652	1-126-965-11	ELECT	22MF	20%	50V	D504	8-719-302-43	DIODE EL1Z	
						D505	8-719-988-61	DIODE 1SS355TE-17	
C653	1-104-664-11	ELECT	47MF	20%	25V	D506	8-719-911-19	DIODE 1SS119-25	
C657	1-101-821-00	CERAMIC	0.0022MF		500V				
C658	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D507	8-719-988-61	DIODE 1SS355TE-17	
C901	1-136-153-00	FILM	0.01MF	5%	50V	D508	8-719-988-61	DIODE 1SS355TE-17	
C902	1-136-153-00	FILM	0.01MF	5%	50V	D509	1-216-073-00	RES,CHIP 10K 5%	1/10W
						D510	8-719-988-61	DIODE 1SS355TE-17	
C905	1-126-963-11	ELECT	4.7MF	20%	50V	D511	8-719-988-61	DIODE 1SS355TE-17	
C906	1-164-346-11	CERAMIC CHIP	1MF	F	16V	D. 7.1.5	0.510.000	DIODE 19922277 17	
C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D512	8-719-988-61	DIODE ISS355TE-17	
C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D513	8-719-908-03	DIODE GP08D	
C909	1-164-346-11	CERAMIC CHIP	1MF		16V	D517	8-719-945-80	DIODE ERCO6-15S	
C010	1 126 067 11	EI ECT	47ME	200/	50W	D518	8-719-900-26	DIODE EL 17	
C910	1-126-967-11	ELECT	47MF	20%	50V	D521	8-719-302-43	DIODE EL1Z	
C911 C912	1-126-967-11 1-164-004-11	ELECT CERAMIC CHIP	47MF 0.1MF	20% 10%	50V 25V	D522	8-719-302-43	DIODE EL1Z	
C912 C913	1-104-004-11	ELECT	100MF	20%	25 V 16 V	D522 D523	8-719-302-43	DIODE EL1Z	
C913 C914	1-120-933-11	CERAMIC CHIP	470PF	20% 5%	50V	D525 D527	8-719-908-03	DIODE ELIZ DIODE GP08D	
C)17	1 105 155-00	CLIVINIC CIIII	T/011	J/0	JU •	D527	8-719-908-03	DIODE GP08D	
						D531	8-719-988-61	DIODE 1SS355TE-17	
		<connector></connector>				D532	8-719-988-61	DIODE 1SS355TE-17	
CN104	1-695-915-11	TAB (CONTACT)				D602	8-719-988-01	DIODE 1SS119-25	
	1-093-913-11	PIN, CONNECTOR	R 4P			D602	8-719-911-19	DIODE RD33EB3T	
	1-763-006-11	PLUG, CONNECTOR				D603	8-719-130-92	DIODE RGP02-17EL-6433	
	1-564-506-11	PLUG, CONNECT				D605	8-719-510-53	DIODE D4SB60L	
	1-564-509-11	PLUG, CONNECT				2003	5 ,17 510-55	2.3222 0 100000	
22.000		,				I			

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
D606	8-719-108-18	THYRISTOR 5P6M			IC301	8-752-088-39	IC CXA2130S		
D607	8-719-404-50	DIODE MA111-TX			IC502	8-759-700-07	IC NJM2903M		
D608	8-719-110-53	DIODE RD20ESB2			IC503	8-759-980-58	IC TDA8172		
D609	8-719-311-31	DIODE RU-1P			IC601	8-749-013-75	IC STR-F6654		
D610	8-719-043-76	DIODE AK04V0			IC602	8-749-920-61	IC SE-135N		
D611	8-719-046-74	DIODE AU-01Z-V1			IC603	8-759-701-59	IC NJM78M09FA		
D613	8-719-046-74	DIODE AU-01Z-V1			IC604	8-759-231-53	IC TA7805S		
D614	8-719-046-74	DIODE AU-01Z-V1			IC901	8-742-014-11	HYB IC SBX1981-5	51	
D618	8-719-067-18	DIODE RN4Z							
D620	8-719-110-72	DIODE RD30ESB2							
							<jack></jack>		
D622	8-719-071-39	DIODE FMU-G26S							
D623	8-719-978-65	DIODE DTZ-TT11-			J401	1-779-850-11	JACK BLOCK, PIN	I 6P	
D624	8-719-404-50	DIODE MA111-TX			J901	1-770-786-11	JACK		
D625	8-719-158-39	DIODE RD10SB			J902	1-770-329-11	JACK, PIN 3P		
D627	8-719-073-84	DIODE 31DQ06-FO	25						
D628	8-719-911-19	DIODE 1SS119-25					<chip conducto<="" td=""><td>OR></td><td></td></chip>	OR>	
D631	8-719-068-00	DIODE ERC04-06S	F				CIM CONDUCT		
D632	8-719-068-00	DIODE ERC04-06S			JR002	1-216-295-91	SHORT	0	
D633	8-719-948-45	DIODE ERA22-08	L		JR002 JR003	1-216-295-91	SHORT	0	
D634	8-719-404-50	DIODE MA111-TX			JR003	1-216-295-91	SHORT	0	
D034	0-719-404-30	DIODE MATTI-TA			JR004 JR005	1-216-295-91	SHORT	0	
D635	8-719-404-50	DIODE MA111-TX			JR005 JR006	1-216-295-91	SHORT	0	
	8-719-404-30	DIODE MATTI-TA			JK000	1-210-293-91	SHOKI	U	
D636					ID007	1 217 205 01	CHODT	0	
D637	8-719-109-96	DIODE RD6.8ESB	l		JR007	1-216-295-91	SHORT	0	
D638	8-719-510-48	DIODE DIN20R			JR008	1-216-295-91	SHORT	0	
D901	8-719-158-35	DIODE RD9.1SB			JR009	1-216-295-91	SHORT	0	
D000	0.710.150.25	DIODE DD0 10D			JR010	1-216-295-91	SHORT	0	
D902	8-719-158-35	DIODE RD9.1SB			JR011	1-216-295-91	SHORT	0	
D903	8-719-158-35	DIODE RD9.1SB			TD 0.4.2	4.44.40.4.04	arron	^	
D904	8-719-158-35	DIODE RD9.1SB			JR012	1-216-295-91	SHORT	0	
D905	8-719-158-35	DIODE RD9.1SB			JR013	1-216-295-91	SHORT	0	
D906	8-719-045-19	DIODE SPB-26MV	WF		JR014	1-216-295-91	SHORT	0	
					JR015	1-216-295-91	SHORT	0	
		CONNECTOR			JR016	1-216-295-91	SHORT	0	
		<connector></connector>			JR018	1-216-295-91	SHORT	0	
DY1 *	* 1-580-798-11	CONNECTOR PIN	(DY) 6P		JR019	1-216-295-91	SHORT	0	
211	1 000 770 11	COTTILECTORITET	(21) 01		JR102	1-216-295-91	SHORT	0	
					JR109	1-216-295-91	SHORT	0	
		<ferrite bead=""></ferrite>			JR202	1-216-295-91	SHORT	0	
FB103	1-410-397-21	FERRITE	1.1UH		JR301	1-216-295-91	SHORT	0	
FB501	1-410-397-21	FERRITE	1.1UH		JR303	1-216-295-91	SHORT	0	
FB502	1-410-397-21	FERRITE	1.1UH		JR401	1-216-295-91	SHORT	0	
FB600	1-410-397-21	FERRITE	1.1UH		JR403	1-216-295-91	SHORT	0	
FB601	1-410-397-21	FERRITE	1.1UH		JR404	1-216-295-91	SHORT	0	
FB602	1-410-397-21	FERRITE	1.1UH		JR405	1-216-295-91	SHORT	0	
FB603	1-410-397-21	FERRITE	1.1UH		JR500	1-216-295-91	SHORT	0	
FB604	1-410-397-21	FERRITE	1.1UH		JR501	1-216-295-91	SHORT	0	
FB607	1-410-397-21	FERRITE	1.1UH		JR600	1-216-295-91	SHORT	0	
FB608	1-412-911-31	FERRITE	0UH		31000	1-210-275-71	SHORT	O	
1 0000	1-412-711-31	TERRITE	0011						
FB611	1-410-397-21	FERRITE	1.1UH				<coil></coil>		
FB613	1-410-397-21	FERRITE	1.1UH						
FB615	1-410-397-21	FERRITE	1.1UH		L002	1-414-856-11	INDUCTOR	10UH	
					L003	1-414-180-11	INDUCTOR	3.3UH	
					L005	1-414-233-22	INDUCTOR CHIP	0UH	
		<ic></ic>			L101	1-414-856-11	INDUCTOR	10UH	
					L102	1-414-856-11	INDUCTOR	10UH	
IC001	8-752-905-21 8-750-271-21	IC CXP86449-615S			I 102	1 111 050 11	INDLICTOR	101111	
IC002	8-759-371-21 8-759-370-34	IC MM1319AFBE			L103 L104	1-414-856-11	INDUCTOR	10UH	
IC003 IC201	8-759-370-34 8-750-336-30	IC ST24C08FB6			L104 L105	1-414-856-11	INDUCTOR	10UH	
IC201 IC203	8-759-336-30 8-759-553-40	IC TA8223K IC TDA7429S			L105 L204	1-414-856-11 1-414-856-11	INDUCTOR INDUCTOR	10UH 10UH	
10203	0-139-333-40	IC 1DA/4298		l	L204 L301	1-414-856-11	INDUCTOR	100H 100UH	
					LJ01	1-414-107-31	TADOCTOR	100011	

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
L302	1-414-185-41	INDUCTOR	22UH		Q506	8-729-140-96	TRANSISTOR 2SD	774 24		
L502 L501	1-414-163-41	INDUCTOR	10UH		Q500 Q507	8-729-216-22	TRANSISTOR 2SA			
L502	1-422-613-11	COIL, AIR CORE	10011		Q509	8-729-230-49	TRANSISTOR 2SC			
L503	1-412-525-31	INDUCTOR	10UH		2007	0.12, 200.,	11411 (5151 514 250	2,12 10		
L504	1-412-525-31	INDUCTOR	10UH		Q511	8-729-048-07	TRANSISTOR 2SD	2578-CA		
					Q601	8-729-023-22	TRANSISTOR 2SD			
L505	1-412-525-31	INDUCTOR	10UH		Q602	8-729-230-49	TRANSISTOR 2SC			
L506	1-412-525-31	INDUCTOR	10UH		Q603	8-729-424-08	TRANSISTOR UN			
L507 L508	1-459-111-00 1-412-525-31	INDUCTOR INDUCTOR	10MMH 10UH		Q604	8-729-200-17	TRANSISTOR 2SA	1091-0		
L508 L509	1-412-323-31	INDUCTOR	390UH		O605	8-729-044-30	TRANSISTOR 2SK	2845-LB102		
230)	1 157 570 00	INDUCTOR	3,0011		Q606	8-729-230-49	TRANSISTOR 2SC			
L510	1-416-972-11	COIL, HORIZONT	AL LINEARITY		Q607	8-729-922-37	TRANSISTOR 2SE	2144S-UVW	•	
L512	1-412-549-31	INDUCTOR	1MMH		Q608	8-729-230-49	TRANSISTOR 2SC	2712-YG		
L513	1-412-549-31	INDUCTOR	1MMH		Q901	8-729-421-19	TRANSISTOR UN	2213		
L515	1-459-104-00	COIL, WITH COR			0000	0.720.421.10	TD ANGIOTOD IN	2010		
L518	1-408-611-31	INDUCTOR	47UH		Q902	8-729-421-19	TRANSISTOR UN	2213		
L601	1-412-527-11	INDUCTOR	15UH							
L901	1-408-603-31	INDUCTOR	10UH				<resistor></resistor>			
L902	1-408-603-31	INDUCTOR	10UH							
L905	1-414-856-11	INDUCTOR	10UH		R001	1-414-233-22	INDUCTOR CHIP	0UH		
					R002	1-216-025-91	RES,CHIP	100	5%	1/10W
		DILLOTTO GOLITA			R003	1-216-073-00	RES,CHIP	10K	5%	1/10W
		<photo couple<="" td=""><td>ER></td><td></td><td>R004</td><td>1-216-025-91</td><td>RES,CHIP RES,CHIP</td><td>100</td><td>5% 5%</td><td>1/10W</td></photo>	ER>		R004	1-216-025-91	RES,CHIP RES,CHIP	100	5% 5%	1/10W
DH600 Å	8-749-924-35	PHOTO COUPLER	ON3171 D		R005	1-216-025-91	RES,CHIP	100	5%	1/10W
111000 215	0-749-924-33	THOTO COULLER	CONST/T-IC		R007	1-216-295-91	SHORT	0		
					R008	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		<ic link=""></ic>			R010	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
					R011	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
PS200	1-532-675-21	LINK, IC 1.5A/150	V		R012	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
					D012	1 214 045 01	DEG CIMB	4.577	50/	1/1011
		TD ANGIETOD.			R013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		<transistor></transistor>			R014 R015	1-216-025-91 1-216-025-91	RES,CHIP RES,CHIP	100 100	5% 5%	1/10W 1/10W
Q002	8-729-230-49	TRANSISTOR 2SO	C2712-YG		R016	1-216-025-91	RES,CHIP	100	5%	1/10W
Q003	8-729-424-08	TRANSISTOR UN			R017	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q004	8-729-421-22	TRANSISTOR UN								
Q101	8-729-230-49	TRANSISTOR 2SO			R018	1-216-033-00	RES,CHIP	220	5%	1/10W
Q201	8-729-424-67	TRANSISTOR UN	2216		R019	1-216-073-00	RES,CHIP	10K	5%	1/10W
0202	8-729-424-67	TD ANGICTOD LIN	2216		R021 R022	1-216-073-00	RES,CHIP RES,CHIP	10K 220	5% 5%	1/10W
Q202 Q203	8-729-424-67	TRANSISTOR UN TRANSISTOR UN			R022 R024	1-216-033-00 1-216-057-00	RES,CHIP	2.2K	5%	1/10W 1/10W
Q203 Q204	8-729-216-22	TRANSISTOR 2SA			K024	1-210-037-00	KE5,CIII	2.2K	370	1/10 W
Q205	8-729-421-19	TRANSISTOR UN			R025	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q206	8-729-421-19	TRANSISTOR UN			R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
					R027	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q207	8-729-421-19	TRANSISTOR UN			R029	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q301	8-729-216-22	TRANSISTOR 2SA			R031	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q302 Q303	8-729-230-49 8-729-216-22	TRANSISTOR 2SO TRANSISTOR 2SO			R035	1-216-025-91	RES,CHIP	100	5%	1/10W
Q305 Q305	8-729-216-22	TRANSISTOR 2SA			R036	1-216-025-91	RES,CHIP	100	5%	1/10W 1/10W
2000	0 ,2, 210 22	11011 (5151 510 251	11102 0		R037	1-216-025-91	RES,CHIP	100	5%	1/10W
Q306	8-729-216-22	TRANSISTOR 2SA	A1162-G		R040	1-216-025-91	RES,CHIP	100	5%	1/10W
Q307	8-729-230-49	TRANSISTOR 2SO			R041	1-216-025-91	RES,CHIP	100	5%	1/10W
Q308	8-729-216-22	TRANSISTOR 2SA								
Q312	8-729-216-22	TRANSISTOR 2SA			R042	1-216-295-91	SHORT	0	50/	1/1037
Q313	8-729-230-49	TRANSISTOR 2SO	.2/12-YG		R043 R044	1-216-025-91 1-216-025-91	RES,CHIP RES,CHIP	100 100	5% 5%	1/10W 1/10W
Q315	8-729-421-19	TRANSISTOR UN	2213		R044 R045	1-414-233-22		0UH	J 70	1/10 **
Q313 Q401	8-729-421-19	TRANSISTOR UN			R045	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q402	8-729-424-67	TRANSISTOR UN					,-			
Q403	8-729-216-22	TRANSISTOR 2SA			R047	1-414-233-22	INDUCTOR CHIP			
Q404	8-729-216-22	TRANSISTOR 2SA	A1162-G		R048	1-216-073-00	RES,CHIP	10K	5%	1/10W
0.50-	0.500.000	mp	20510 110		R050	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q503	8-729-230-49	TRANSISTOR 2SO			R053	1-216-049-91	RES,CHIP	1K	5% 5%	1/10W
Q505	8-729-931-45	TRANSISTOR IRE	·U14		R055	1-216-073-00	RES,CHIP	10K	5%	1/10W

		,									
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R056	1-216-073-00	RES.CHIP	10K	5%	1/10W	R316	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R061	1-216-033-00	RES,CHIP	220	5%	1/10W	R317	1-216-077-00	RES,CHIP	15K	5%	1/10W
R062	1-216-041-00	RES,CHIP	470	5%	1/10W	R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R063	1-216-037-00	RES,CHIP	330	5%	1/10W	1010	1 210 031 00	кы,сти	1.211	570	1/10//
R064	1-216-037-00	RES,CHIP	330	5%	1/10W	R319	1-216-025-91	RES,CHIP	100	5%	1/10W
1001	1 210 037 00	кыз,ети	330	570	1/10//	R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R065	1-216-037-00	RES,CHIP	330	5%	1/10W	R321	1-216-073-00	RES,CHIP	10K	5%	1/10W
R066	1-216-049-91	RES,CHIP	1K	5%	1/10W	R322	1-216-033-00	RES,CHIP	220	5%	1/10W
R105	1-216-295-91	SHORT	0	370	1/1011	R326	1-216-295-91	SHORT	0	370	1/10**
R109	1-216-041-00	RES,CHIP	470	5%	1/10W	K320	1-210-2/3-/1	SHORT	U		
R111	1-216-025-91	RES,CHIP	100	5%	1/10W	R331	1-216-295-91	SHORT	0		
KIII	1-210-023-91	KE3,CIII	100	370	1/10 W	R332	1-216-293-91	RES.CHIP	220	5%	1/10W
R112	1-216-025-91	RES,CHIP	100	5%	1/10W	R333	1-216-033-00	RES,CHIP	10K	5%	1/10W
R113	1-216-023-91	RES,CHIP	820	5%	1/10W 1/10W	R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
		,									
R202	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R335	1-216-045-00	RES,CHIP	680	5%	1/10W
R203	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	D220	1 217 022 00	DEC CHID	220	5 0/	1/1037
R204	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R338	1-216-033-00	RES,CHIP	220	5%	1/10W
D207		DEG GIVE	2 277	- 0.	4 /4 0 7 7 7	R340	1-216-025-91	RES,CHIP	100	5%	1/10W
R205	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R345	1-216-081-00	RES,CHIP	22K	5%	1/10W
R206	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R348	1-216-675-11	METAL CHIP	10K		1/10W
R207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R349	1-216-073-00	RES,CHIP	10K	5%	1/10W
R208	1-216-061-00	RES,CHIP	3.3K	5%	1/10W						
R209	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
						R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R210	1-216-027-00	RES,CHIP	120	5%	1/10W	R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R212	1-216-027-00	RES,CHIP	120	5%	1/10W	R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R213	1-216-073-00	RES,CHIP	10K	5%	1/10W	R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R214	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R215	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R357	1-216-079-00	RES,CHIP	18K	5%	1/10W
						R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R216	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R359	1-216-033-00	RES,CHIP	220	5%	1/10W
R217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R360	1-216-033-00	RES,CHIP	220	5%	1/10W
R218	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R361	1-216-073-00	RES,CHIP	10K	5%	1/10W
R219	1-216-025-91	RES,CHIP	100	5%	1/10W						
R220	1-216-025-91	RES,CHIP	100	5%	1/10W	R362	1-216-075-00	RES,CHIP	12K	5%	1/10W
		ŕ				R363	1-216-079-00	RES,CHIP	18K	5%	1/10W
R221	1-216-295-91	SHORT	0			R364	1-216-295-91	SHORT	0		
R222	1-216-295-91	SHORT	0			R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R225	1-216-033-00	RES,CHIP	220	5%	1/10W	R366	1-216-073-00	RES,CHIP	10K	5%	1/10W
R226	1-216-033-00	RES,CHIP	220	5%	1/10W			,			
R227	1-216-033-00	RES,CHIP	220	5%	1/10W	R367	1-216-073-00	RES,CHIP	10K	5%	1/10W
11227	1 210 000 00	1125,0111	220	270	1/10//	R370	1-216-033-00	RES,CHIP	220	5%	1/10W
R228	1-249-389-11	CARBON	4.7	5%	1/4W	R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R229	1-216-073-00	RES,CHIP	10K	5%	1/10W	R377	1-216-121-91	RES,CHIP	1M	5%	1/10W
R230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R378	1-216-031-00	RES,CHIP	180	5%	1/10W
R231	1-216-295-91	SHORT	0.01	370	1/10 11	1070	1 210 031 00	KLD,CIIII	100	370	1/10**
R234	1-249-389-11	CARBON	4.7	5%	1/4W	R401	1-216-049-91	RES,CHIP	1K	5%	1/10W
11234	1 247 307 11	CHILDOIN	4.7	370	1/ * * *	R402	1-216-073-00	RES,CHIP	10K	5%	1/10W
R235	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R403	1-216-073-00	RES,CHIP	10K	5%	1/10W
R236	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R404	1-216-073-00	RES,CHIP	10K	5%	1/10W
R237	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R405	1-216-049-91	RES,CHIP	1K	5%	1/10W
R301	1-216-073-00	RES,CHIP	10K	5%	1/10W	103	1-210-047-71	KL5,CIII	1 K	370	1/10**
R302	1-216-295-91	SHORT	0	370	1/10 W	R406	1-216-073-00	RES,CHIP	10K	5%	1/10W
K302	1-210-293-91	SHOKI	U			R400	1-216-073-00	RES,CHIP	10K 1K	5% 5%	1/10W 1/10W
D202	1-216-049-91	DEC CHID	117	£0/	1/1037	1		*			
R303		RES,CHIP	1K	5%	1/10W	R408	1-216-049-91	RES,CHIP	1K	5%	1/10W
R304	1-216-073-00	RES,CHIP	10K	5%	1/10W	R409	1-216-041-00	RES,CHIP	470 4701	5%	1/10W
R305	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R410	1-216-113-00	RES,CHIP	470K	5%	1/10W
R306	1-216-073-00	RES,CHIP	10K	5%	1/10W	D.444	1 21 5 112 00	DEG CIVE	15077	- 0.	4 /4 0377
R307	1-216-295-91	SHORT	0			R411	1-216-113-00	RES,CHIP	470K	5%	1/10W
D200	1 01/ 007 01	DEG CITE	100	F0/	1 /1 0337	R412	1-216-041-00	RES,CHIP	470	5%	1/10W
R308	1-216-025-91	RES,CHIP	100	5%	1/10W	R413	1-216-021-00	RES,CHIP	68	5%	1/10W
R309	1-216-025-91	RES,CHIP	100	5%	1/10W	R414	1-216-113-00	RES,CHIP	470K	5%	1/10W
R310	1-216-025-91	RES,CHIP	100	5%	1/10W	R415	1-216-113-00	RES,CHIP	470K	5%	1/10W
R311	1-216-017-91	RES,CHIP	47	5%	1/10W					_	
R312	1-216-041-00	RES,CHIP	470	5%	1/10W	R416	1-216-077-00	RES,CHIP	15K	5%	1/10W
						R417	1-216-077-00	RES,CHIP	15K	5%	1/10W
R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R418	1-216-113-00	RES,CHIP	470K	5%	1/10W
R314	1-216-045-00	RES,CHIP	680	5%	1/10W	R419	1-216-022-00	RES,CHIP	75	5%	1/10W
						R426	1-216-033-00	RES,CHIP	220	5%	1/10W

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

RM-952 RM-952

RM-952

RM-915

RM-95

\$\ Pictors \$\ \text{Pictors \$\ \text{Pi	R	EF. NO.	PART NO.	DESCRIPTION			REMA	.RK	REF. NO.	PART NO.	DESCRIPTION			REMA	RK
\$\ \text{Post of } Pos	F	R505	1-216-099-00	RES.CHIP	120K	5%	1/10W		R593	1-260-288-11	CARBON	0.47	5%	1/2W	F
1-209-389-11 CARBON 4.77 5% LaW F				*											
1-215-91-00			1-249-389-11			5%	1/4W	F	R596	1-215-922-11	METAL OXIDE		5%	3W	F
R510	F	R508	1-215-910-00	METAL OXIDE	68	5%	3W	F							
\$1	F	R509	1-215-911-11	METAL OXIDE	100	5%	3W	F	R597	1-247-750-11	CARBON	680	5%	1/2W	F
Region 1-215-911-11 METAL OXIDE 100 5% 3M F 100W 1249-438-11 CARBON 5K 5% 124W F 1248 1247 1248 124									R598	1-249-438-11	CARBON	56K	5%	1/4W	
RS16 1-216-081-00 RRS.CHIP 22K 5% 1/10W R601 1-249-418-11 CARBON 1.2K 5% 1/4W F RS18 1-247-87-31 CARBON 10K 1/5 1/4W R603 1-215-88-50 METAL 10K 1/5 1/4W R603 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-89-51 RES.CHIP 10K 0.50% 1/10W R803 1-216-09-71 RES.CHIP 10K 0.50% 1/10W R803 1-216-09-71 RES.CHIP 10K 5% 1/10W R809	F	R510	1-215-885-00	METAL OXIDE	68	5%	2W	F	R599	1-249-389-11	CARBON	4.7	5%	1/4W	
RS16 1-216-081-00 RRS.CHIP 22K 5% 1/10W R601 1-249-418-11 CARBON 1.2K 5% 1/4W F RS18 1-247-87-31 CARBON 10K 1/5 1/4W R603 1-215-88-50 METAL 10K 1/5 1/4W R603 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-88-50 METAL 1/10W R803 1-215-89-51 RES.CHIP 10K 0.50% 1/10W R803 1-216-09-71 RES.CHIP 10K 0.50% 1/10W R803 1-216-09-71 RES.CHIP 10K 5% 1/10W R809			1-215-911-11	METAL OXIDE	100	5%	3W	F	R600	1-249-438-11	CARBON	56K	5%	1/4W	
R520			1-216-081-00	RES,CHIP	22K	5%	1/10W		R601	1-249-418-11			5%	1/4W	F
R522							1/4W								
R523	F	R520	1-215-445-00	METAL	10K	1%	1/4W		R602	1-249-389-11	CARBON	4.7	5%	1/4W	F
R525									R603	1-215-485-00	METAL	470K	1%	1/4W	
R525 1-216-099-11 METAL CHIP 100K 0.50h 1/10W R609 1-246-057-00 RES.CHIP 2.2K 5.5h 1/10W R629 1-216-007-00 RES.CHIP 2.2K 5.5h 1/10W R619 1-216-007-00 RES.CHIP 47K 5.5h 1/10W R619 1-260-007-00 RES.CHIP 5.5k 5.5h 1/	F	R522	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		R604	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R526 1-206-798-11 RES.CHIP 4-7K 0.506 1/10W R609 1-216-057-00 RES.CHIP 10 K 5% 1/10W R612 1-216-057-00 RES.CHIP 10 K 5% 1/10W R612 1-216-057-00 RES.CHIP 10 K 5% 1/10W R613 1-216-057-00 RES.CHIP 10 K 5% 1/10W R613 1-216-059-00 RES.CHIP 60 K 5% 1/10W R615 1-216-059-00 RES.CHIP 60 K 5% 1/10W R615 1-216-059-00 RES.CHIP 60 K 5% 1/2W F R615 1-216-059-00 RES.CHIP 7 K 5% 1/10W R617 1-226-052-10 RES.CHIP 7 K 5% 1/10W R619 1-226-152-11 CARBON 2.7 K 5% 1/2W R619 1-226-152-11 CARBON 2.7 K 5% 1/10W R623 1-216-059-00 RES.CHIP 4.7 K 5% 1/10W R624 1-216-059-00 RES.CHIP 4.7 K 5% 1/10W R625 1-216-059-00 RES.CHIP 5 K 5% 1/10W R625 1-216-059-00 RES.CHIP 5 K 5% 1/10W R626 1-216-059-00 RES.CHIP 5 K 5% 1/10W R627 1-216-059-00 RES.CHIP 15 K 5% 1/10W R628 1-216-059-00 RES.CHIP 15 K 5% 1/10W R629 1-216-059-00 RES.CHIP	F	R523	1-249-411-11	CARBON	330	5%	1/4W		R607	1-249-425-11	CARBON	4.7K	5%	1/4W	
RESCHIP 10	F	R525	1-216-699-11	METAL CHIP	100K	0.50%	1/10W		R608	1-240-205-91	CARBON	22M	5%	1/2W	
R288 1-216-683-11 METAL CHIP 22K 0.59% 1/10W R612 1-216-098-09 RES,CHIP 47K 5% 1/10W R831 1-224-884-11 CARBON 3.3K 5% 14W R614 1-216-041-00 RES,CHIP 680 5% 1/10W R613 1-216-697-00 RES,CHIP 470 5% 1/10W R613 1-216-697-00 RES,CHIP 470 5% 1/10W R613 1-216-697-00 RES,CHIP 5.6K 5% 1/10W R614 1-216-041-00 RES,CHIP 470 5% 1/10W R615 1-216-30-11 METAL OXIDE 1.2 5% 1/10W R615 1-216-30-11 METAL OXIDE 1.2 5% 1/10W R619 1-206-128-11 CARBON 6.5 5% 1/2W F R615 1-216-30-11 METAL OXIDE 1.2 5% 1/2W F R615 1-216-30-11 METAL OXIDE 1.2 5% 1/2W F R615 1-216-30-11 METAL OXIDE 4.7 4	F	R526	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W								
RS29	F	R527	1-216-001-00	RES,CHIP	10	5%	1/10W		R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R539 1-216-635-11 METIAL CHIP 220 0.59% 1/10W R614 1-216-001-00 RES.CHIP 680 5% 1/10W R533 1-249-417-11 CARBON 1/10W R614 1-216-001-00 RES.CHIP 470 5% 1/10W R615 1-216-530-11 METIAL OXIDE 1.2 5% 1/10W R619 1-226-128-11 CARBON 22 5% 1/2W F R615 1-216-530-11 METIAL OXIDE 4.7 5% 1/10W R619 1-226-128-11 CARBON 220 5% 1/2W F R615 1-216-630-11 METIAL OXIDE 4.7 5% 1/10W R619 1-226-128-11 CARBON 220 5% 1/2W F R615 1-216-630-11 METIAL OXIDE 4.7 5% 1/10W R619 1-226-128-11 CARBON 220 5% 1/2W F R620 1-215-695-11 METIAL OXIDE 4.7 5% 1/10W R620 1-215-695-10 METIAL OXIDE 4.7 5% 1/10W R620 1-215-695-10 METIAL OXIDE 4.7 5% 1/10W R621 1-216-695-90 RES.CHIP 15K 5% 1/10W R621 1-216-695-90 RES.CHIP 15K 5% 1/10W R623 1-226-695-90 RES.CHIP 15K 5% 1/10W R631 1-246-695-91 RES.CHIP 15K 5% 1/10W R631 1-246-695-91 RES.CHIP 15K 5% 1/10W R631 1-246-695-91 RES.CHIP 4.7 5% 1/10W R631 1-246-695-91 RES.CHIP 15K 5% 1/10W R631 1-246-695-91 RES.CHIP 4.7 6.8 6.9									R610	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R533 1-247-843-11 CARBON 13.K 5% 14W R533 1-246-361-21 METAL OXIDE 0.22 5% 2W F R615 1-216-30-11 METAL OXIDE 12.5 5% 1W F R615 1-216-30-11 METAL OXIDE 12.5 10.5 1.2	F	R528	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		R611	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R334 1-216-667-00 RES.CHIP 5.6K 5% 1/10W R616 1-226-302.51 CARBON 6.8 5% 1/2W F R615 1-216-307-05 CARBON 6.8 5% 1/2W F R616 1-226-302.51 CARBON 22 5% 1/2W F R616 1-226-302.51 CARBON 22 5% 1/2W F R616 1-226-302.51 CARBON 270K 5% 1/2W F R617 1-227-302.51 CARBON 270K 5% 1/2W F R617 1-227-302.51 CARBON 270K 5% 1/2W F R618 1-216-605-91 RES.CHIP 4.7K 5% 1/10W R62 1-216-305-91 METAL OXIDE 470 5% 3W F R618 1-216-605-91 RES.CHIP 4.7K 5% 1/10W R62 1-216-305-91 METAL OXIDE 470 5% 3W F R618 1-216-605-91 RES.CHIP 4.7K 5% 1/10W R62 1-216-305-91 METAL OXIDE 470 5% 3W F R618 1-216-605-91 RES.CHIP 4.7K 5% 1/10W R62 1-216-305-91 RES.CHIP 82K 5% 1/10W R62 1-216-305-91 RES.CHIP 82K 5% 1/10W R63 1-216-305-91 RES.CHIP 15K 5% 1/10W R62 1-216-305-91 RES.CHIP 15K 5% 1/10W R63 1-224-325-11 CARBON 470 5% 1/2W F R618 1-216-605-91 RES.CHIP 4.7K 5% 1/10W R63 1-224-325-11 CARBON 470 5% 1/2W F R619 1-226-325-11 CARBON 470 5% 1/2W F R619 1-226-325-11 CARBON 1/2W R619 1-226-325-11 CARBON 1/2W R619 1-226-325-11 CARBON 1/2W R619 1-226-325-11 CARBON 1/2W R619 1-226-	F	R529	1-216-635-11	METAL CHIP	220	0.50%	1/10W		R612	1-216-045-00	RES,CHIP	680	5%	1/10W	
R343	F	R531	1-247-843-11	CARBON	3.3K	5%	1/4W		R614	1-216-041-00	RES,CHIP	470	5%	1/10W	
R335 -216-667-00 RES.CHIP 5.6K 5% 1/10W R619 1-260-128-11 CARBON 220 5% 1/4W R837 -1216-683-11 METAL CHIP 22K 0.50% 1/10W R619 1-260-128-11 CARBON 270K 5% 1/2W R837 1-216-683-11 METAL CHIP 22K 0.50% 1/10W R620 1-215-915-11 METAL OXIDE 470 5% 3W F R840 1-216-665-91 RES.CHIP 4.7K 5% 1/10W R620 1-215-915-11 METAL OXIDE 33 5% 3W F R841 1-216-665-91 RES.CHIP 4.7K 5% 1/10W R622 1-216-695-00 RES.CHIP 4.7K 5% 1/10W R621 1-216-685-91 RES.CHIP 1/2 K 5% 1/10W R621 1-216-685-91 RES.CHIP 4.7K 5% 1/10W R621 1-216-685-91 METAL 8.2M 5% 1/4W R631 1-216-685-91 METAL 8.2M 5% 1/4W R635 1-216-697-91 RES.CHIP 4.7K 1/2 K 1/4W R635 1-216-697-91 RES.CHIP 4.7K 1/2 K 1/4W R641 1-216-63-10 METAL 8.2M 5% 1/4W R656 1-216-697-91 RES.CHIP 4.7K 1/2 K 1/4W R641 1-216-63-11 CARBON 1.5K 5% 1/4W R656 1-216-697-91 RES.CHIP 4.7K 1/2 K 1/4W R641 1-216-63-11 CARBON 1.5K 5% 1/4W R656 1-216-697-91 RES.CHIP 4.7K 5% 1/10W R657 1-216-697-91 RES.CHIP 4.7K 5% 1/10W R657 1-216-697-91 RES.CHIP	F	R533	1-249-417-11	CARBON	1K	5%	1/4W								
R536 1-216-067-00 RESCHIP 5.6K 5% 1/10W R637 1-247-791-91 CARBON 22 5% 1/4W R636 1-261-067-00 RESCHIP 5.6K 5% 1/10W R620 1-215-915-11 METAL OXIDE 47K 5% 1/10W R621 1-216-095-00 RESCHIP 47K 5% 1/10W R621 1-216-095-00 RESCHIP 47K 5% 1/10W R623 1-216-095-00 RESCHIP 47K 5% 1/10W R624 1-216-095-00 RESCHIP 47K 5% 1/10W R626 1-216-049-91 RESCHIP 15K 5% 1/10W R626 1-216-049-91 RESCHIP 15K 5% 1/10W R626 1-216-049-91 RESCHIP 15K 5% 1/10W R629 1-247-747-11 CARBON 470 5% 1/4W R630 1-249-429-11 CARBON 10K 5% 1/4W R630 1-249-429-11 CARBON 10K 5% 1/4W R631 1-216-089-91 RESCHIP 47K 5% 1/10W R631 1-216-099-91 METAL OXIDE 2/K 5% 1/10W R631 1-216-099-91 METAL OXIDE 2/K 5% 1/10W R631 1-216-099-91 METAL OXIDE 2/K 5% 1/10W R631 1-216-099-91 METAL OXIDE	F	R534	1-216-361-21	METAL OXIDE	0.22	5%	2W	F	R615	1-216-350-11	METAL OXIDE		5%		F
R536 1-216-065-01 RES.CHIP 5.6K 5% 1/10W R620 1-250-128-11 CARBON 270K 5% 1/2W R540 1-216-065-91 RES.CHIP 4.7K 5% 1/10W R620 1-215-915-11 METAL OXIDE 470 5% 3W F R541 1-216-065-91 RES.CHIP 4.7K 5% 1/10W R621 1-216-095-00 RES.CHIP 4.7K 5% 1/10W R622 1-215-095-00 RES.CHIP 4.7K 5% 1/10W R623 1-216-095-00 RES.CHIP 82K 5% 1/10W R542 1-216-095-00 RES.CHIP 5K 5% 1/10W R624 1-216-095-00 RES.CHIP 1K 5% 1/10W R545 1-216-077-00 RES.CHIP 15K 5% 1/10W R627 1-240-251-11 CMT.MELF 6.8 5% 1/10W R545 1-216-077-00 RES.CHIP 15K 5% 1/10W R627 1-240-251-11 CMT.MELF 6.8 5% 1/10W R545 1-216-077-00 RES.CHIP 3XK 5% 1/10W R627 1-240-251-11 CARBON 470 5% 1/2W R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R632 1-240-429-11 CARBON 470 5% 1/2W F R555 1-216-097-90 RES.CHIP 10K 5% 1/10W R632 1-202-935-61 FUSIBLE 0.11 10% 1/2W F R555 1-216-097-90 RES.CHIP 2.2K 5% 1/4W R632 1-216-492-21 METAL OXIDE 8XK 5% 3W F R558 1-249-421-11 CARBON 2.2K 5% 1/4W R639 1-216-492-21 METAL OXIDE 8XK 5% 3W F R558 1-249-421-11 CARBON 10K 5% 1/4W R639 1-216-030-00 RES.CHIP 10K 5% 1/4W R639 1-216-030-00 RES.CHIP 2.2K 5% 1/4W R639 1-216-030-00 RES.CHIP 2.2K 5% 1/4W R639 1-216-030-00 RES.CHIP 2.2K 5% 1/4W R640 1-249-415-11 CARBON 1.5K 5% 3W F R558 1-249-421-11 CARBON 10K 5% 1/4W R641 1-249-415-11 CARBON 1.5K 5% 3W F R558 1-249-421-11 CARBON 4.7K 5% 1/4W R641 1-249-415-11 CARBON 1.5K 5% 3W F R566 1-216-073-00 RES.CHIP 20K 5% 1/4W R641 1-249-415-11 CARBON 1.5K 5% 3W F R566 1-216-073-00 RES.CHIP 20K 5% 1/4W R641 1-249-419-11 CARBON 1.5K 5% 3W F R566 1-216-073-00 RES.CHIP 10K 5% 1/4W R659 1-249-41									R616	1-260-302-51	CARBON	6.8	5%	1/2W	F
R\$30						5%	1/10W		R617	1-247-791-91	CARBON	22	5%	1/4W	
R540	F	R536	1-216-067-00			5%	1/10W		R619	1-260-128-11	CARBON	270K	5%	1/2W	
R541 1-216-065-91 RES.CHIP 4.7K 5% 1/10W R622 1-215-908-00 RES.CHIP 8.2K 5% 1/10W R542 1-216-295-91 SHORT 0 R624 1-216-095-00 RES.CHIP 8.2K 5% 1/10W R543 1-249-426-11 CARBON 5.6K 5% 1/4W F R626 1-216-049-91 RES.CHIP 1K 5% 1/10W R634 1-216-070-00 RES.CHIP 15K 5% 1/10W R627 1-240-251-11 CMT.MELF 6.8 5% 1/0W R627 1-240-251-11 CMT.MELF 6.8 5% 1/0W R627 1-240-251-11 CMT.MELF 6.8 5% 1/0W R630 1-249-429-11 CARBON 1/0W R639 1-215-451-00 METAL 18K 1% 1/4W R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R632 1-202-933-61 PUSIBLE 0.1 10% 1/2W F R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R632 1-202-933-61 PUSIBLE 0.1 10% 1/2W F R631 1-216-089-91 RES.CHIP 47K 5% 1/10W R632 1-202-933-61 PUSIBLE 0.1 10% 1/2W F R636 1-215-457-00 METAL 33K 1% 1/4W R635 1-216-92-20 METAL 82M 5% 1/2W F R636 1-215-94-00 METAL 33K 1% 1/4W R639 1-216-692-10 METAL 0XIDE 82K 5% 3W F R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R639 1-216-692-10 METAL 0XIDE 82K 5% 3W F R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-419-11 CARBON 1.5K 5% 3W F R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-419-11 CARBON 1.5K 5% 3W F R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-419-11 CARBON 1.5K 5% 1/4W R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-9419-11 CARBON 1.5K 5% 3W F R656 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-9419-11 CARBON 1.5K 5% 1/4W R650 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-9419-11 CARBON 1.5K 5% 1/4W R658 1-216-07-00 RES.CHIP 10K 5% 1/4W R640 1-219-9419-11 CARBON 1.5K 5% 1/4W R657	F	R537	1-216-683-11	METAL CHIP		0.50%	1/10W		R620	1-215-915-11	METAL OXIDE	470	5%	3W	F
R542				*											
R542 1-216-095-91 SHORT 0	F	R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W								F
R543											,				
R545													5%		
R546															
R547				*					R627	1-240-251-11	CMT,MELF	6.8	5%	10W	
R549															
R549	F	R547	1-216-085-00	RES,CHIP	33K	5%	1/10W								
R550	_														F
R551 1-249-421-11 CARBON 2.2K 5% 1/4W R634															_
R552 1-216-057-00 RES,CHIP 2.2K 5% 1/10W R635 1-216-492-21 METAL OXIDE 82K 5% 3W F R553 1-215-457-00 METAL 33K 1% 1/4W R636 1-215-924-00 METAL OXIDE 18K 5% 3W F R554 1-215-437-00 METAL 4.7K 1% 1/4W R637 1-216-492-21 METAL OXIDE 82K 5% 3W F R558 1-215-437-00 METAL 4.7K 1% 1/4W R639 1-216-302-01 METAL OXIDE 82K 5% 3W F R558 1-249-421-11 CARBON 10K 5% 1/4W R640 1-249-415-11 CARBON 680 5% 1/4W R560 1-216-073-00 RES,CHIP 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 2.2 5% 1/4W R562 1-249-401-11 CARBON 47 5% 1/4W R643				*											F
R553 1-215-457-00 METAL 33K 1% 1/4W R635 1-216-492-21 METAL OXIDE 82K 5% 3W F R554 1-215-457-00 METAL 33K 1% 1/4W R637 1-216-492-21 METAL OXIDE 15K 5% 3W F R556 1-215-437-00 METAL 4.7K 1% 1/4W R639 1-216-363-00 METAL OXIDE 82K 5% 3W F R556 1-215-437-00 METAL 4.7K 1% 1/4W R639 1-216-363-00 METAL OXIDE 0.33 5% 2W F R558 1-249-421-11 CARBON 10K 5% 1/4W R640 1-249-415-11 CARBON 680 5% 1/4W R559 1-249-429-11 CARBON 10K 5% 1/4W R640 1-249-415-11 CARBON 1.5K 5% 1/4W R560 1-216-073-00 RES,CHIP 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R552 1-249-401-11 CARBON 1.5K 5% 1/4W R645 1-249-419-11 CARBON 1.5K 5% 1/4W R565 1-216-073-00 RES,CHIP 220K 5% 1/10W R646 1-215-924-00 METAL OXIDE 15K 5% 3W F R568 1-249-383-11 CARBON 1.5 5% 1/4W R649 1-249-419-11 CARBON 1.5K 5% 1/4W R567 1-216-069-00 RES,CHIP 220K 5% 1/10W R646 1-215-924-00 METAL OXIDE 15K 5% 1/4W R573 1-216-089-91 RES,CHIP 47K 5% 1/10W R649 1-216-097-00 RES,CHIP 2.2K 5% 1/10W R649 1-216-097-00 RES,CHIP 2.2K 5% 1/10W R650 1-215-882-00 METAL OXIDE 22 5% 2W F R578 1-216-097-91 RES,CHIP 100K 5% 1/10W R650 1-215-873-00 METAL OXIDE 22 5% 2W F R588 1-216-699-11 METAL OXIDE 220 5% 2W F R652 1-215-970-01 METAL OXIDE 220K 5% 1/10W R650 1-216-049-91 RES,CHIP 10K 5% 1/10W R65									R634 <u>4</u>	∆ 1-218-265-91	METAL	8.2M	5%	IW	
R554 1-215-457-00 METAL 33K 19 1/4W R637 1-216-692-21 METAL OXIDE 82K 5% 3W F R556 1-215-437-00 METAL 4.7K 19 1/4W R637 1-216-692-21 METAL OXIDE 82K 5% 3W F R558 1-249-421-11 CARBON 2.2K 5% 1/4W R639 1-216-692-21 METAL OXIDE 0.33 5% 2W F R558 1-249-421-11 CARBON 10K 5% 1/4W R640 1-249-415-11 CARBON 680 5% 1/4W R559 1-249-429-11 CARBON 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R650 1-216-073-00 RES,CHIP 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R652 1-249-401-11 CARBON 1.5K 5% 1/4W R643 1-247-843-11 CARBON 3.3K 5% 1/4W R567 1-216-105-91 RES,CHIP 220K 5% 1/10W R644 1-249-419-11 CARBON 1.5K 5% 1/4W R567 1-216-605-00 RES,CHIP 220K 5% 1/10W R644 1-215-924-00 METAL OXIDE 15K 5% 3W F R577 1-215-437-00 METAL 4.7K 19 1/4W R649 1-249-401-11 CARBON 47 5% 1/10W R571 1-215-437-00 METAL 4.7K 19 1/4W R649 1-249-401-11 CARBON 1/4W R573 1-216-089-91 RES,CHIP 47K 5% 1/10W R650 1-215-882-00 METAL OXIDE 22 5% 2W F R577 1-215-30-00 METAL OXIDE 22 5% 2W F R577 1-215-30-00 METAL OXIDE 1 5% 2W F R578 1-216-059-00 METAL OXIDE 1 5% 2W F R651 1-216-90-11 METAL OXIDE 22 5% 2W F R579 1-216-097-91 RES,CHIP 47K 0.50% 1/10W R650 1-215-882-00 METAL OXIDE 22 5% 2W F R588 1-216-639-00 METAL OXIDE 20 5% 2W F R651 1-216-03-00 RES,CHIP 10K 5% 1/10W R581 1-216-699-11 METAL OXIDE 22 5% 2W F R651 1-216-03-00 RES,CHIP 10K 5% 1/10W R581 1-216-680 METAL OXIDE 22 5% 2W F R658 1-216-630-00 METAL OXIDE 22 5% 2W F R658 1-216-630-00 METAL OXIDE 20 5% 2W F R660 1-216-03-00 RES,CHIP 10K 5% 1/10W R581 1-216-880 METAL OXIDE 20 5% 2W F R660 1									D 625	1 216 102 21	MEET OMBE	0217	50/	2117	-
R554 1-215-457-00 METAL 33K 1% 1/4W R637 1-216-492-21 METAL OXIDE 82K 5% 3W F R556 1-215-437-00 METAL 4.7K 1% 1/4W R639 1-216-363-00 METAL OXIDE 0.33 5% 2W F R558 1-249-421-11 CARBON 2.2K 5% 1/4W R659 1-216-363-00 METAL OXIDE 0.33 5% 2W F R558 1-249-421-11 CARBON 10K 5% 1/4W R640 1-249-415-11 CARBON 680 5% 1/4W R559 1-249-421-11 CARBON 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R560 1-216-073-00 RES,CHIP 10K 5% 1/10W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R561 1-216-073-00 RES,CHIP 10K 5% 1/10W R642 1-249-419-11 CARBON 1.5K 5% 1/4W R565 1-216-073-00 RES,CHIP 20K 5% 1/10W R644 1-249-419-11 CARBON 1.5K 5% 1/4W R566 1-216-059-00 RES,CHIP 2.2K 5% 1/10W R646 1-215-924-00 METAL OXIDE 15K 5% 3W F R570 1-216-069-00 RES,CHIP 4.7K 5% 1/10W R649 1-249-411-11 CARBON 47 5% 1/4W R649 1-249-411-11 CARBON 1K 5% 1/4W R657 1-216-369-00 METAL OXIDE 20 5% 3W F R650 1-215-882-00 METAL OXIDE 22 5% 2W F R578 1-216-369-00 METAL OXIDE 1 5% 2W F R578 1-216-399-11 METAL OXIDE 1 5% 2W F R658 1-216-099-11 METAL OXIDE 20 5% 2W F R658 1-216-099-11 METAL OXIDE 20 5% 2W F R658 1-216-309-00 METAL OXIDE 20 5% 2W F R659 1-216-049-91 RES,CHIP 4.7K 5% 1/10W R659 1-216-308-00 RES,CH	ŀ	(333	1-215-457-00	METAL	33K	1%	1/4W								
R556 1-215-437-00 METAL 4.7K 1% 1/4W R639 1-216-363-00 METAL OXIDE 0.33 5% 2W F R558 1-249-421-11 CARBON 2.2K 5% 1/4W R640 1-249-415-11 CARBON 680 5% 1/4W R559 1-249-421-11 CARBON 10K 5% 1/4W R641 1-216-362-11 METAL OXIDE 0.27 5% 2W F R562 1-249-401-11 CARBON 47 5% 1/4W R643 1-249-419-11 CARBON 1.5K 5% 1/4W R562 1-249-401-11 CARBON 4.7 5% 1/10W R644 1-249-419-11 CARBON 1.5K 5% 1/4W R565 1-216-05-90 RES,CHIP 20K 5% 1/10W R646 1-215-94-00 METAL OXIDE 15K 5% 3W F R570 1-216-06-00 RES,CHIP 6.8K 5% 1/10W R647 1-249	г	0554	1 215 457 00	METAI	221/	10/	1 /4337								
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R579 1-216-097-91 RES,CHIP 100K 5% 1/10W R653 1-215-873-00 METAL OXIDE 4.7K 5% 1W F R657 1-260-127-11 CARBON 220K 5% 1/2W R580 1-216-699-11 METAL CHIP 100K 0.50% 1/10W R659 1-216-049-91 RES,CHIP 1K 5% 1/10W R581 1-208-798-11 RES,CHIP 4.7K 0.50% 1/10W R660 1-216-073-00 RES,CHIP 10K 5% 1/10W R585 1-249-391-11 CARBON 6.8 5% 1/4W F R588 1-215-888-00 METAL OXIDE 220 5% 2W F R589 1-215-888-00 METAL OXIDE 220 5% 2W F R589 1-215-465-00 METAL OXIDE 220 5% 2W F R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W										, , , , , ,			- / -		-
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R580 1-216-699-11 METAL CHIP 100K 0.50% 1/10W R659 1-216-049-91 RES,CHIP 1K 5% 1/10W R581 1-208-798-11 RES,CHIP 4.7K 0.50% 1/10W R660 1-216-073-00 RES,CHIP 10K 5% 1/10W R585 1-249-391-11 CARBON 6.8 5% 1/4W F R661 1-215-873-00 METAL OXIDE 4.7K 5% 1W F R588 1-215-888-00 METAL OXIDE 220 5% 2W F R680 1-216-308-00 RES,CHIP 4.7 5% 1/10W R590 1-215-888-00 METAL OXIDE 220 5% 2W F R680 1-216-308-00 RES,CHIP 4.7 5% 1/10W R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W	•			,		- /-	1								
R581 1-208-798-11 RES,CHIP 4.7K 0.50% 1/10W R660 1-216-073-00 RES,CHIP 10K 5% 1/10W R585 1-249-391-11 CARBON 6.8 5% 1/4W F R661 1-215-873-00 METAL OXIDE 4.7K 5% 1W F R588 1-215-888-00 METAL OXIDE 220 5% 2W F R589 1-215-888-00 METAL OXIDE 220 5% 2W F R680 1-216-308-00 RES,CHIP 4.7 5% 1/10W R901 1-249-411-11 CARBON 330 5% 1/4W R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W	F	R580	1-216-699-11	METAL CHIP	100K	0.50%	1/10W								
R585 1-249-391-11 CARBON 6.8 5% 1/4W F R588 1-215-888-00 METAL OXIDE 220 5% 2W F R589 1-215-888-00 METAL OXIDE 220 5% 2W F R589 1-215-888-00 METAL OXIDE 220 5% 2W F R680 1-216-308-00 RES,CHIP 4.7 5% 1/10W R901 1-249-411-11 CARBON 330 5% 1/4W R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W															
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R589 1-215-888-00 METAL OXIDE 220 5% 2W F R680 1-216-308-00 RES,CHIP 4.7 5% 1/10W R901 1-249-411-11 CARBON 330 5% 1/4W R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W									-		_				
R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W									R680	1-216-308-00	RES,CHIP	4.7	5%	1/10W	
R590 1-215-465-00 METAL 68K 1% 1/4W R902 1-249-411-11 CARBON 330 5% 1/4W R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W															
R591 1-260-288-11 CARBON 0.47 5% 1/2W F R903 1-216-022-00 RES,CHIP 75 5% 1/10W	F	R590	1-215-465-00	METAL	68K	1%	1/4W		R902				5%		
¹ R904 1-216-033-00 RES,CHIP 220 5% 1/10W	F	R591	1-260-288-11	CARBON		5%	1/2W	F	R903	1-216-022-00	RES,CHIP	75	5%	1/10W	
									R904	1-216-033-00	RES,CHIP	220	5%	1/10W	

RM-952 RM-952 RM-952

RM-915 RM-952

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

A (KV-HF51P50) **A** (KV-XF21M80)

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R905	1-216-113-00	RES,CHIP	470K	5%	1/10W	*	· A-1298-945-A	A BOARD, COMP		21M80	(E)
R906	1-216-077-00	RES,CHIP	15K	5%	1/10W			******	****		
R907	1-216-113-00	RES,CHIP	470K	5%	1/10W	*	A-1298-944-A	A BOARD, COMPI		21M80	(ME)
R908	1-216-077-00	RES,CHIP	15K	5%	1/10W			******	****		
R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	*	^c A-1298-933-A	A BOARD, COMPI		21M80	(VIETNAM)
R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W						
R911	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	*	4-040-983-41	TERMINAL BOAR	D (D) (KV-XI	F21M80	(E/ME)ONLY)
R912	1-216-041-00	RES,CHIP	470	5%	1/10W	*	4-055-304-01	HOLDER, LED			
R913	1-216-049-91	RES,CHIP	1K	5%	1/10W	*	4-067-182-02	HOLDER, FBT (KY	V-XF21M80(V	IETNA	M))
R914	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	*	4-070-141-01 4-382-854-11	HOLDER, FBT (KV SCREW (M3X10),	,	/ME))	
R915	1-216-061-00	RES,CHIP	3.3K	5%	1/10W						
R916	1-216-017-91	RES,CHIP	47	5%	1/10W		4-382-854-21	SCREW (M3X14),	P, SW (+)		
R917	1-216-041-00	RES,CHIP	470	5%	1/10W		7-685-648-79	SCREW +BVTP	3X12 TYPE2	N-S	
R918	1-216-041-00	RES,CHIP	470	5%	1/10W						
		,		-,-	-, - ,						
		<relay></relay>						<capacitor></capacitor>			
						C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
RY601 ⚠	1-755-266-11	RELAY, AC POWE	ER			C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
						C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C007	1-126-933-11	ELECT	100MF	20%	16V
		<switch></switch>				C008	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		SWITCH				C008	1-103-231-11	CERAMIC CIII	10011	370	J0 V
S502	1-572-707-11	SWITCH, LEVER				C010	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
S600 ⚠	1-571-433-31	SWITCH, PUSH (C012	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
	1-692-431-21	SWITCH, TACTIL	,			C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
	1-692-431-21	SWITCH, TACTIL				C014	1-126-967-11	ELECT	47MF	20%	50V
	1-692-431-21	SWITCH, TACTIL				C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
3903	1-092-431-21	SWITCH, IACTIL	Æ.			C013	1-103-009-11	CERAMIC CHIP	0.0011011	1070	30 V
S904	1-692-431-21	SWITCH, TACTIL	E			C016	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
S905	1-692-431-21	SWITCH, TACTIL	Æ			C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
S906	1-692-431-21	SWITCH, TACTIL				C019	1-104-665-11	ELECT	100MF	20%	25V
S907	1-692-431-21	SWITCH, TACTIL				C022	1-163-227-11	CERAMIC CHIP	10PF		50V
5707	1 072 431 21	Switch, meth	al.			C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	
		<transformer< td=""><td>₹></td><td></td><td></td><td>C024</td><td>1-163-227-11</td><td>CERAMIC CHIP</td><td>10PF</td><td>0.5PF</td><td></td></transformer<>	₹>			C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	
						C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
T501	1-437-195-11	TRANSFORMER,	HORIZONTA	AL DRI	VE	C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
T503 🛆	1-453-293-11	TRANSFORMER	ASSY, (NX-1	748//M3	SA4)	C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
T601	1-424-682-11	TRANSFORMER,	LINE FILTE	R		C030	1-126-965-11	ELECT	22MF	20%	50V
T603 △	1-433-513-31	TRANSFORMER,	CONVERTE	R (SRT)							
T604 🛆	1-431-852-11	TRANSFORMER,	CONVERTE	R (SRT)		C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		,		()		C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
						C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
		<thermistor></thermistor>				C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		\TTILKWII5TOK>				C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
THP600	1-810-961-11	THERMISTOR, PO	OSITIVE			C042	1-103-231-11	CERAMIC CITI	10011	370	30 v
		,				C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
						C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		<tuner></tuner>				C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		\TUNEK>				C047	1-163-251-11	CERAMIC CHIP	100FF	5%	50V
TI 1101	0.500.447.00	TIMED ECC DEC	1.0411								
TU101	8-598-447-00	TUNER, FSS BTF	-LG411			C050	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
						C051	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		<crystal></crystal>				C053	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
						C054	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
X001	1-579-125-11	VIBRATOR, CER.	AMIC			C055	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
	1-781-134-21	VIBRATOR, CRY				C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
X302	1-781-132-21	VIBRATOR, CRY				100	2 201 007 11	-22.0 20110 01111	J	10/0	
11304	1 /01-134-41	, ibian on, CRI	O 11 111			C104	1-126-933-11	ELECT	100MF	20%	16V
						C104 C107	1-120-933-11	CERAMIC CHIP	470PF	10%	50V
						l					
						C108	1-126-933-11	ELECT CERAMIC CHIR	100MF	20%	16V
المناف ال	الله الله الله الله الله الله الله الله		ا الماد الما	د د د د د د د د د د د د د د د د د		C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
~~~ <b>*****</b> **	*********	********	~~~~*****	~~~**	~~~~****	C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V

**A** (KV-XF21M80)

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REF. NO	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C265	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C111	1-126-933-11	ELECT	100MF	20%	16V	C301	1-104-303-11	ELECT	470MF	20%	16V
C112	1-126-967-11	ELECT	47MF	20%	50V	C301	1 120 733 11	LLLC I	4701111	2070	10 1
C114	1-126-967-11	ELECT	47MF	20%	50V	C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C202	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C303	1-126-964-11	ELECT	10MF	20%	50V
0202	1 103 021 71	CERTIFIC CITI	0.01111	1070	301	C304	1-126-967-11	ELECT	47MF	20%	50V
C203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C204	1-136-164-00	FILM	0.082MF	5%	50V	C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C205	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V						
C206	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C207	1-136-164-00	FILM	0.082MF	5%	50V	C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
						C309	1-126-957-11	ELECT	0.22MF	20%	50V
C208	1-126-964-11	ELECT	10MF	20%	50V	C310	1-126-963-11	ELECT	4.7MF	20%	50V
C209	1-126-964-11	ELECT	10MF	20%	50V	C311	1-126-964-11	ELECT	10MF	20%	50V
C210	1-126-933-11	ELECT	100MF	20%	16V						
C211	1-126-941-11	ELECT	470MF	20%	25V	C312	1-164-346-11	CERAMIC CHIP	1MF		16V
C212	1-126-933-11	ELECT	100MF	20%	16V	C313	1-164-346-11	CERAMIC CHIP	1MF		16V
						C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C213	1-126-933-11	ELECT	100MF	20%	16V	C316	1-126-967-11	ELECT	47MF	20%	50V
C214	1-126-942-61	ELECT	1000MF	20%	25V	C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C215	1-126-942-61	ELECT	1000MF	20%	25V						
C216	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C217	1-126-964-11	ELECT	10MF	20%	50V	C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
						C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C218	1-136-167-00	FILM	0.15MF	5%	50V	C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C219	1-136-167-00	FILM	0.15MF	5%	50V	C323	1-126-965-11	ELECT	22MF	20%	50V
C220	1-126-942-61	ELECT	1000MF	20%	25V	G224	1 1 52 01 7 00	ann is ea arm	0.00457.55	400/	
C221	1-126-964-11	ELECT	10MF	20%	50V	C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C223	1-126-965-11	ELECT	22MF	20%	50V	C325	1-126-960-11	ELECT	1MF	20%	50V
C224	1 162 122 00	CED AMIC CHID	470DE	<b>5</b> 0/	5017	C327	1-126-965-11	ELECT CERAMIC CHIR	22MF	20%	50V
C224	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C225	1-109-982-11 1-109-982-11	CERAMIC CHIP CERAMIC CHIP	1MF 1MF	10% 10%	10V 10V	C329	1-126-965-11	ELECT	22MF	20%	50V
C226 C227	1-109-982-11	CERAMIC CHIP	0.022MF	10%	50V	C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C227	1-163-037-11	CERAMIC CHIP	0.022MF 0.018MF	10%	50V	C330	1-247-807-31	CARBON	100	5%	23 <b>v</b> 1/4W
C220	1-103-024-00	CERAMIC CHIF	0.0101011	1070	30 <b>v</b>	C331	1-126-963-11	ELECT	4.7MF	20%	50V
C229	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C230	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C231	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	0330	1 101 001 11	CERU IVIIC CIII	0.11411	1070	23 •
C232	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C337	1-126-961-11	ELECT	2.2MF	20%	50V
C233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
						C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C401	1-164-346-11	CERAMIC CHIP	1MF		16V
C236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C238	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C402	1-164-346-11	CERAMIC CHIP	1MF		16V
C240	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C403	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C404	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C241	1-164-346-11	CERAMIC CHIP	1MF		16V	C405	1-126-935-11	ELECT	470MF	20%	16V
C242	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C406	1-164-346-11	CERAMIC CHIP	1MF		16V
C243	1-216-295-91	SHORT	0								
C244	1-164-700-11	CERAMIC CHIP	0.68MF		16V	C407	1-164-346-11	CERAMIC CHIP	1MF		16V
C245	1-164-346-11	CERAMIC CHIP	1MF		16V	C408	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
G2.16	1 1 52 010 00	ann i ra arm	0.005.05	100/		C409	1-126-963-11	ELECT	4.7MF	20%	50V
C246	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	C415	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C247	1-164-346-11	CERAMIC CHIP	1MF	100/	16V	C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C248	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V	C506	1 107 (20 11	EL EOT	223.45	200/	1.6017
C249	1-164-004-11	CERAMIC CHIP	0.1MF 0	10%	25V	C506 C507	1-107-638-11 1-161-830-00	ELECT CERAMIC	33MF 0.0047MF	20%	160V 500V
C250	1-216-295-91	SHORT	U			C507 C510	1-101-830-00	CERAMIC	0.0047MF 330PF	10%	500 V 50 V
C251	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C510 C512	1-102-112-00	CERAMIC CHIP	0.033MF	10%	25V
C251 C252	1-163-017-00	CERAMIC CHIP	0.0047MF 1MF	1070	30 V 16 V	C512 C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C252 C253	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C313	1-103-203-11	CLIMBING CHIP	3301 I	J 70	JU Y
C254	1-126-965-11	ELECT	22MF	20%	50V	C514	1-106-383-00	MYLAR	0.047MF	10%	200V
C255	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C517	1-164-182-11	CERAMIC CHIP	0.047MF	10%	50V
0200	1 100 007 11	-2	J. J	10/0	50.	C518	1-104-665-11	ELECT	100MF	20%	10V
C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C519	1-102-212-00	CERAMIC	820PF	10%	500V
C259	1-126-933-11	ELECT	100MF	20%	16V	C521	1-126-934-11	ELECT	220MF	20%	16V
C264	1-164-505-11	CERAMIC CHIP	2.2MF		16V	I					

RM-952 RM-952 RM-952 RM-915 RM-952

**A** (KV-XF21M80)

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

	<u> </u>	,									
REF. NO	D. PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C522	1-126-933-11	ELECT	100MF	20%	16V	C623	1-104-665-11	ELECT	100MF	20%	25V
C523	1-120-933-11	CERAMIC	680PF	10%	500V	C623	1-104-003-11	CERAMIC	0.0022MF	10%	23 V 1KV
C524			47MF		500 V	C024	1-104-331-11	CERAMIC	0.00221011	1070	1 K V
	1-126-967-11	ELECT MYLAR	4/MF 0.1MF	20% 5%	50V 50V	C627	1-102-002-00	CERAMIC	680PF	10%	500V
C526	1-130-495-00 1-102-820-00	CERAMIC	330PF	5%	50 V 50 V				1000MF	20%	25V
C527	1-102-820-00	CERAMIC	330PF	3%	30 V	C628	1-126-942-61	ELECT			50V
0520	1 162 124 11	CEDAMIC	470DE	100/	OIZN/	C629	1-126-964-11	ELECT	10MF	20%	
C528	1-162-134-11	CERAMIC	470PF	10%	2KV	C630	1-123-024-21	ELECT	33MF	100/	160V
C530	1-137-372-11	FILM	0.022MF	5%	50V 50V	C633	1-104-999-11	MYLAR	0.1MF	10%	200V
C531	1-126-961-11	ELECT	2.2MF	20%		0024	1 126 022 11	ELECT	100ME	200/	100
C532	1-126-941-11	ELECT	470MF	20%	25V	C634	1-126-933-11	ELECT	100MF	20%	16V
C533	1-126-941-11	ELECT	470MF	20%	25V	C635	1-104-665-11	ELECT	100MF	20%	10V
0506	1 126 167 00	FIL 3.6	0.13.00	<b>5</b> 0/	5017	C636	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C536	1-136-165-00	FILM	0.1MF	5%	50V	C639	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C537	1-126-969-11	ELECT	220MF	20%	50V	C640	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C538	1-136-076-00	FILM	0.0085MF	3%	2KV	9544	4 402 002 00	GED LANG	500PF	100/	
C539	1-129-746-91	FILM	0.039MF	5%	400V	C641	1-102-002-00	CERAMIC	680PF	10%	500V
C540	1-136-171-00	FILM	0.33MF	5%	50V	C642	1-126-943-11	ELECT	2200MF	20%	25V
						C643	1-104-665-11	ELECT	100MF	20%	10V
C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C645	1-137-605-11	FILM	0.01MF	10%	250V
C550	1-106-220-00	MYLAR	0.1MF	10%	100V						
C551	1-126-960-11	ELECT	1MF	20%	50V	C646	1-107-679-91	ELECT	10MF	20%	450V
C552	1-162-116-00	CERAMIC	680PF	10%	2KV	C647	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
						C649	1-126-940-11	ELECT	330MF	20%	25V
C553	1-162-116-00	CERAMIC	680PF	10%	2KV	C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C554	1-137-417-11	MYLAR	0.0047MF	10%	200V	C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C556	1-126-941-11	ELECT	470MF	20%	25V						
C557	1-126-941-11	ELECT	470MF	20%	25V	C652	1-126-965-11	ELECT	22MF	20%	50V
C558	1-123-024-21	ELECT	33MF		160V	C653	1-104-664-11	ELECT	47MF	20%	25V
						C657	1-101-821-00	CERAMIC	0.0022MF		500V
C560	1-102-228-00	CERAMIC	470PF	10%	500V	C658	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C561	1-136-557-11	FILM	0.0033MF	5%	630V	C901	1-136-153-00	FILM	0.01MF	5%	50V
C562	1-102-228-00	CERAMIC	470PF	10%	500V						
C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C902	1-136-153-00	FILM	0.01MF	5%	50V
C565	1-107-655-11	ELECT	47MF	20%	250V	C905	1-126-963-11	ELECT	4.7MF	20%	50V
						C906	1-164-346-11	CERAMIC CHIP	1MF		16V
C566	1-102-244-00	CERAMIC	220PF	10%	500V	C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C567	1-115-521-11	FILM	0.82MF	5%	250V	C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C568	1-102-228-00	CERAMIC	470PF	10%	500V					- / -	
C570	1-115-520-11	FILM	0.68MF	5%	250V	C909	1-164-346-11	CERAMIC CHIP	1MF		16V
C573	1-106-379-12	MYLAR	0.033MF	10%	200V	C910	1-126-967-11	ELECT	47MF	20%	50V
0070	1 100 077 12	1,112,111	0.0001.11	10,0	200 .	C911	1-126-967-11	ELECT	47MF	20%	50V
C574	1-107-636-11	ELECT	10MF	20%	160V	C912	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C576	1-130-495-00	MYLAR	0.1MF	5%	50V	C913	1-126-933-11	ELECT	100MF	20%	16V
C577	1-106-395-00	MYLAR	0.15MF	10%	200V	C)13	1 120 733 11	ELLCI	100111	2070	10 •
C582	1-164-004-11	CERAMIC CHIP	0.13WI 0.1MF	10%	25V	C914	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
	△ 1-104-705-51	FILM	0.1MF	20%	250V	()14	1-103-133-00	CLICAIVIIC CIIII	47011	370	30 <b>v</b>
2000	<u>110+-705-51</u>	1 11/1/1	J.1111	20/0	230 1						
C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V			<connector></connector>			
	△ 1-127-942-51	CERAMIC CHIP	330PF	10%	250V			COMMECTOR			
	△ 1-127-942-51	CERAMIC	330PF	10%	250V 250V	CN104	1-695-915-11	TAB (CONTACT)			
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V		1-785-608-11	PIN, CONNECTO	D //D		
C608	1-161-830-00	CERAMIC	0.0047MF	99%	500 V 500 V		1-765-006-11	PLUG, CONNECTOR			
C008	1-101-050-00	CERAINIC	0.004/WII	JJ /0	300 V	1	1-564-506-11	PLUG, CONNECT			
C609	1-126-968-11	ELECT	100MF	20%	50V	1	1-564-509-11	PLUG, CONNECT			
						CN303	1-304-309-11	PLUG, CONNECT	OK OF		
C610	1-126-964-11 1-161-830-00	ELECT	10MF	20%	50V 500V	CNI204	: 1 56/ 510 11	PLUG, CONNECT	ΩD 7D		
C611 C612		CERAMIC	0.0047MF	99%	500V 500V		1-564-510-11 1-508-765-00	PIN, CONNECTO		מני חדי	
	1-161-830-00	CERAMIC	0.0047MF	99%		CN505			•	.H) 3P	
C613	1-117-752-11	ELECT(BLOCK)	JUNIF	20%	450V	CN506	4-352-844-01	PIN, LEAD, COAT			
0011	1 100 004 11	ELECT	1014	2007	50V		1-564-507-11	PLUG, CONNECTOR			
C614	1-126-964-11	ELECT	10MF	20%	50V	CN601 *	1-580-843-11	PIN, CONNECTO	k (POWER)		
C616	1-130-202-00	FILM	0.022MF	10%	400V	COLTAGO :	1 500 505 00	DIN CONTROL	) (E) O ( DITE	TT) 25	
C617	1-107-792-11	CERAMIC	100PF	5%	1KV		1-508-786-00	PIN, CONNECTO	*		
C618	1-125-893-11	FILM	680PF	3%	1.5KV		1-573-963-11	PIN, CONNECTO	•	,	
C619	1-119-886-51	CERAMIC	470PF	10%	250V		1-508-784-21	PIN, CONNECTO	•	CH) 1P	
						CN901 *	1-564-507-11	PLUG, CONNECT	OR 4P		
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V						
C621	1-102-114-00	CERAMIC	470PF	10%	50V						
C622	1-102-074-00	CERAMIC	0.001MF	10%	50V	•					

# **A** (KV-XF21M80)

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	<co< td=""><td>MPOSITION CIRCUIT BLOCK&gt;</td><td></td><td></td><td>D614 D618</td><td>8-719-046-74 8-719-067-18</td><td>DIODE AU-01Z-V DIODE RN4Z</td><td>1</td><td></td></co<>	MPOSITION CIRCUIT BLOCK>			D614 D618	8-719-046-74 8-719-067-18	DIODE AU-01Z-V DIODE RN4Z	1	
CP301	1-467-554-21	FILTER BLOCK, COMB			D620	8-719-110-72	DIODE RD30ESB3	2	
		DIODE			D622	8-719-071-39	DIODE FMU-G26		
		<diode></diode>			D623 D624	8-719-978-65 8-719-404-50	DIODE DTZ-TT11 DIODE MA111-TX		
D001	8-719-988-61	DIODE 1SS355TE-17			D625	8-719-158-39	DIODE RD10SB		
D005	8-719-988-61	DIODE 1SS355TE-17			D627	8-719-073-84	DIODE 31DQ06-F	C5	
D006	8-719-988-61	DIODE 1SS355TE-17							
D203	8-719-914-42	DIODE DA204K			D628	8-719-911-19	DIODE 1SS119-25		
D300	1-216-295-91	SHORT 0			D631 D632	8-719-068-00	DIODE ERC04-06		
D301	8-719-988-61	DIODE 1SS355TE-17			D632 D633	8-719-068-00 8-719-948-45	DIODE ERA22-08		
D306	8-719-988-61	DIODE 1SS355TE-17			D634	8-719-404-50	DIODE MA111-TX		
D307	8-719-988-61	DIODE 1SS355TE-17							
D308	8-719-988-61	DIODE 1SS355TE-17			D635	8-719-404-50	DIODE MA111-TX	ζ	
D309	8-719-159-10	DIODE RD5.1SB-T2			D636	8-719-510-02	DIODE D1NS4		
D211	0.710.000.61	DIODE 1002557F 17			D637	8-719-109-96	DIODE RD6.8ESB	1	
D311	8-719-988-61	DIODE 188355TE-17			D638	8-719-510-48	DIODE DIN20R		
D312 D313	8-719-988-61 8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17			D901	8-719-158-35	DIODE RD9.1SB		
D313	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17			D902	8-719-158-35	DIODE RD9.1SB		
D315	8-719-988-61	DIODE 1SS355TE-17			D903	8-719-158-35	DIODE RD9.1SB		
					D904	8-719-158-35	DIODE RD9.1SB		
D316	8-719-069-57	DIODE UDZS-TE17-6.8B			D905	8-719-158-35	DIODE RD9.1SB		
D401	8-719-158-35	DIODE RD9.1SB			D906	8-719-045-19	DIODE SPB-26MV	/WF	
D402	8-719-158-35	DIODE RD9.1SB							
D403 D404	8-719-158-35 8-719-158-35	DIODE RD9.1SB DIODE RD9.1SB					<connector></connector>		
D404	0-719-130-33	DIODE RD9.13B					CONNECTOR>		
D405	8-719-158-35	DIODE RD9.1SB			DY1 *	1-580-798-11	CONNECTOR PIN	(DY) 6P	
D406	8-719-158-35	DIODE RD9.1SB							
D504 D505	8-719-302-43 8-719-988-61	DIODE EL1Z DIODE 1SS355TE-17					<ferrite bead<="" td=""><td>_</td><td></td></ferrite>	_	
D506	8-719-911-19	DIODE 1SS119-25							
D.505	0.710.000.61	DIODE 1000557F 17			FB103	1-410-397-21	FERRITE	1.1UH	
D507 D508	8-719-988-61 8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17			FB501 FB502	1-410-397-21 1-410-397-21	FERRITE FERRITE	1.1UH 1.1UH	
D508	1-216-073-00		%	1/10W	FB600	1-410-397-21	FERRITE	1.1UH	
D510	8-719-988-61	DIODE 1SS355TE-17	70	1,1011	FB601	1-410-397-21	FERRITE	1.1UH	
D511	8-719-988-61	DIODE 1SS355TE-17							
D510	0.710.000.61	DIODE 1002557F 17			FB602	1-410-397-21	FERRITE	1.1UH	
D512 D513	8-719-988-61 8-719-908-03	DIODE 1SS355TE-17 DIODE GP08D			FB603 FB604	1-410-397-21 1-410-397-21	FERRITE FERRITE	1.1UH 1.1UH	
D513	8-719-945-80	DIODE GROOD DIODE ERC06-15S			FB607	1-410-397-21	FERRITE	1.1UH	
D518	8-719-900-26	DIODE ERD29-08J			FB608	1-412-911-31	FERRITE	0UH	
D521	8-719-302-43	DIODE EL1Z			PD 444	4 440 007 04			
D522	8-719-302-43	DIODE EL1Z			FB611 FB613	1-410-397-21 1-410-397-21	FERRITE FERRITE	1.1UH 1.1UH	
D523	8-719-302-43	DIODE EL1Z			FB615	1-410-397-21	FERRITE	1.1UH	
D527	8-719-908-03	DIODE GP08D							
D528	8-719-908-03	DIODE GP08D							
D531	8-719-988-61	DIODE 1SS355TE-17					<ic></ic>		
D532	8-719-988-61	DIODE 1SS355TE-17			IC001	8-752-905-21	IC CXP86449-615	S (KV-XF21M80(E/V	/IETNAM))
D602	8-719-911-19	DIODE 1SS119-25			IC001	8-752-905-20		S (KV-XF21M80(MI	
D603	8-719-150-92	DIODE RD33EB3T			IC002	8-759-371-21	IC MM1319AFBE		
D604	8-719-028-72	DIODE RGP02-17EL-6433			IC003	8-759-370-34	IC ST24C08FB6		
D605	8-719-510-53	DIODE D4SB60L			IC201	8-759-336-30	IC TA8223K		
D606	8-719-108-18	THYRISTOR 5P6M			IC203	8-759-553-40	IC TDA7429S		
D607	8-719-404-50	DIODE MA111-TX			IC301	8-752-088-39	IC CXA2130S		
D608	8-719-110-53	DIODE RU 1P			IC502	8-759-700-07	IC NJM2903M		
D609 D610	8-719-311-31 8-719-043-76	DIODE RU-1P DIODE AK04V0			IC503 IC601	8-759-980-58 8-749-013-75	IC TDA8172 IC STR-F6654		
מוטע	0-117-043-10	DIODE VIVOAAA			10001	0-747-013-73	IC 51K-1'0054		
D611	8-719-046-74	DIODE AU-01Z-V1							
D613	8-719-046-74	DIODE AU-01Z-V1							

RM-952 RM-952 RM-952 RM-952

**A** (KV-XF21M80)

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

		,							
REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	0.740.020.44						n in iliamon	107777	
IC602	8-749-920-61	IC SE-135N			L503	1-412-525-31	INDUCTOR	10UH	
IC603 IC604	8-759-701-59 8-759-231-53	IC NJM78M09FA IC TA7805S			L504	1-412-525-31	INDUCTOR	10UH	
IC901	8-742-014-11	HYB IC SBX1981-	51		L505	1-412-525-31	INDUCTOR	10UH	
10,01	0 / 12 011 11	1112 10 02111701	-		L506	1-412-525-31	INDUCTOR	10UH	
					L507	1-459-111-00	INDUCTOR	10MMH	
		<jack></jack>			L508	1-412-525-31	INDUCTOR	10UH	
					L509	1-459-390-00	INDUCTOR	390UH	
J401	1-779-850-11	JACK BLOCK, PIN	6P						
J901	1-770-786-11	JACK			L510	1-416-972-11	COIL, HORIZONT		
J902	1-770-329-11	JACK, PIN 3P			L512	1-412-549-31	INDUCTOR	1MMH	
					L513 L515	1-412-549-31 1-459-104-00	INDUCTOR COIL, WITH CORI	1MMH	
		<chip conduct<="" td=""><td>OR&gt;</td><td></td><td>L513</td><td>1-408-611-31</td><td>INDUCTOR</td><td>47UH</td><td></td></chip>	OR>		L513	1-408-611-31	INDUCTOR	47UH	
		com compect	ole.		2510	1 100 011 31	naceron	17011	
JR002	1-216-295-91	SHORT	0		L601	1-412-527-11	INDUCTOR	15UH	
JR003	1-216-295-91	SHORT	0		L901	1-408-603-31	INDUCTOR	10UH	
JR004	1-216-295-91	SHORT	0		L902	1-408-603-31	INDUCTOR	10UH	
JR005	1-216-295-91	SHORT	0		L905	1-414-856-11	INDUCTOR	10UH	
JR006	1-216-295-91	SHORT	0						
JR007	1-216-295-91	SHORT	0				<photo couple<="" td=""><td>'D &lt;</td><td></td></photo>	'D <	
JR007 JR008	1-216-295-91	SHORT	0				<photo couple<="" td=""><td>K&gt;</td><td></td></photo>	K>	
JR009	1-216-295-91	SHORT	0		PH600 ∕\	8-749-924-35	PHOTO COUPLER	ON3171-R	
JR010	1-216-295-91	SHORT	0		111000	. 0 , 1,5 ,2 . 00	111010 0001221	01.01711	
JR011	1-216-295-91	SHORT	0						
							<ic link=""></ic>		
JR012	1-216-295-91	SHORT	0						
JR013	1-216-295-91	SHORT	0		PS200	1-532-675-21	LINK, IC 1.5A/150	V	
JR014	1-216-295-91	SHORT	0						
JR015 JR016	1-216-295-91 1-216-295-91	SHORT SHORT	0				<transistor></transistor>		
JKU10	1-210-293-91	SHOKI	U				<transistor></transistor>		
JR018	1-216-295-91	SHORT	0		Q002	8-729-230-49	TRANSISTOR 2SC	2712-YG	
JR019	1-216-295-91	SHORT	0		Q003	8-729-424-08	TRANSISTOR UN	2111	
JR102	1-216-295-91	SHORT	0		Q004	8-729-421-22	TRANSISTOR UN	2211	
JR109	1-216-295-91	SHORT	0		Q101	8-729-230-49	TRANSISTOR 2SC		
JR202	1-216-295-91	SHORT	0		Q201	8-729-424-67	TRANSISTOR UN	2216	
JR301	1-216-295-91	SHORT	0		Q202	8-729-424-67	TRANSISTOR UN	2216	
JR303	1-216-295-91	SHORT	0		Q202 Q203	1-801-806-11	TRANSISTOR DT		
JR401	1-216-295-91	SHORT	0		Q204	8-729-216-22	TRANSISTOR 2SA		
JR403	1-216-295-91	SHORT	0		Q205	1-801-806-11	TRANSISTOR DT		
JR404	1-216-295-91	SHORT	0		Q206	1-801-806-11	TRANSISTOR DT	C144EKA-T146	
JR405	1-216-295-91	SHORT	0		Q207	1-801-806-11	TRANSISTOR DTO		
JR500	1-216-295-91	SHORT	0		Q301	8-729-216-22	TRANSISTOR 2SA		
JR501 JR600	1-216-295-91 1-216-295-91	SHORT SHORT	0		Q302 Q303	8-729-230-49 8-729-216-22	TRANSISTOR 2SC TRANSISTOR 2SA		
31000	1-210-275-71	SHORI	O .		Q305 Q305	8-729-216-22	TRANSISTOR 2SA		
					(***				
		<coil></coil>			Q306	8-729-216-22	TRANSISTOR 2SA	1162-G	
					Q307	8-729-230-49	TRANSISTOR 2SC	2712-YG	
L002	1-414-856-11	INDUCTOR	10UH		Q308	8-729-216-22	TRANSISTOR 2SA		
L003	1-414-180-11	INDUCTOR CHIP	3.3UH		Q312	8-729-216-22	TRANSISTOR 2SA		
L005 L101	1-414-233-22 1-414-856-11	INDUCTOR CHIP INDUCTOR	10UH		Q313	8-729-230-49	TRANSISTOR 2SC	2/12-YG	
L101 L102	1-414-856-11	INDUCTOR	10UH		Q315	8-729-421-19	TRANSISTOR UN	2213	
102	1 T1TUJUT11	I IDOCION	10011		Q313 Q401	8-729-421-19	TRANSISTOR UN		
L103	1-414-856-11	INDUCTOR	10UH		Q402	8-729-424-67	TRANSISTOR UN		
L104	1-414-856-11	INDUCTOR	10UH		Q403	8-729-216-22	TRANSISTOR 2SA		
L105	1-414-856-11	INDUCTOR	10UH		Q404	8-729-216-22	TRANSISTOR 2SA	1162-G	
L204	1-414-856-11	INDUCTOR	10UH						
L301	1-414-189-31	INDUCTOR	100UH		Q503	8-729-230-49	TRANSISTOR 2SC		
1 202	1 /1/ 105 /1	INDLICTOR	221111		Q505 Q506	8-729-931-45	TRANSISTOR IRF		
L302 L501	1-414-185-41 1-412-525-31	INDUCTOR INDUCTOR	22UH 10UH		Q506 Q507	8-729-140-96 8-729-216-22	TRANSISTOR 2SE TRANSISTOR 2SA		
L501 L502	1-412-323-31	COIL, AIR CORE	10011		Q507 Q509	8-729-230-49	TRANSISTOR 2SC		
		,		l	Ç		22-200	-	

**A** (KV-XF21M80)

								L			
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q511	8-729-016-32	TRANSISTOR 2SO	M027 01			R063	1-216-037-00	RES,CHIP	330	5%	1/10W
Q601	8-729-023-22	TRANSISTOR 2SE				R064	1-216-037-00	RES,CHIP	330	5%	1/10W 1/10W
Q602	8-729-230-49	TRANSISTOR 2SC				1004	1 210 037 00	KLD,CIIII	330	370	1/10 **
Q603	8-729-424-08	TRANSISTOR UN				R065	1-216-037-00	RES,CHIP	330	5%	1/10W
Q604	8-729-200-17	TRANSISTOR 2SA				R066	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q00 <del>1</del>	0-729-200-17	TRANSISTOR 25F	11071-0			R105	1-216-295-91	SHORT	0	370	1/10 **
Q605	8-729-044-30	TRANSISTOR 2Sk	2845-I B102			R109	1-216-041-00	RES,CHIP	470	5%	1/10W
Q606	8-729-230-49	TRANSISTOR 2SC				R111	1-216-025-91	RES,CHIP	100	5%	1/10W
Q607	8-729-922-37	TRANSISTOR 2SE		,		KIII	1-210-025-71	KL5,CIII	100	370	1/10 **
Q608	8-729-230-49	TRANSISTOR 2SC				R112	1-216-025-91	RES,CHIP	100	5%	1/10W
Q901	8-729-421-19	TRANSISTOR 2SC				R112 R113	1-216-023-91	RES,CHIP	820	5%	1/10W 1/10W
Q901	0-729-421-19	TRANSISTOR UN	2213			R202		RES,CHIP	1.5K		1/10W 1/10W
Q902	8-729-421-19	TRANSISTOR UN	2212			R202 R203	1-216-053-00 1-216-057-00	RES,CHIP	2.2K	5% 5%	1/10W 1/10W
Q902	0-729-421-19	TRANSISTOR UN	2213			R203 R204	1-216-057-00	RES,CHIP	6.8K	5%	1/10W 1/10W
						K204	1-210-009-00	кез,спіг	0.0K	370	1/10 W
		<resistor></resistor>				R205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
		<resistor></resistor>				R203 R206		RES,CHIP	0.8K 2.2K	5% 5%	1/10W 1/10W
D001	1 414 222 22	INDUCTOR CUID	OLIII				1-216-057-00				
R001	1-414-233-22	INDUCTOR CHIP		E0/	1/10W	R207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R002	1-216-025-91	RES,CHIP	100	5%		R208	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R003	1-216-073-00	RES,CHIP	10K	5%	1/10W	R209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R004	1-216-025-91	RES,CHIP	100	5%	1/10W	D210	1 21 6 020 00	DEG CHID	150	50/	1/10337
R005	1-216-025-91	RES,CHIP	100	5%	1/10W	R210	1-216-029-00	RES,CHIP	150	5%	1/10W
D005	4.04.5.00.5.04	arronm.	^			R212	1-216-029-00	RES,CHIP	150	5%	1/10W
R007	1-216-295-91	SHORT	0		4 /4 0377	R213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R008	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R010	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R215	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R011	1-216-065-91	RES,CHIP	4.7K	5%	1/10W						
R012	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R216	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
						R217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R218	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R014	1-216-025-91	RES,CHIP	100	5%	1/10W	R219	1-216-025-91	RES,CHIP	100	5%	1/10W
R015	1-216-025-91	RES,CHIP	100	5%	1/10W	R220	1-216-025-91	RES,CHIP	100	5%	1/10W
R016	1-216-025-91	RES,CHIP	100	5%	1/10W						
R017	1-216-049-91	RES,CHIP	1K	5%	1/10W	R221	1-216-295-91	SHORT	0		
						R222	1-216-295-91	SHORT	0		
R018	1-216-033-00	RES,CHIP	220	5%	1/10W	R225	1-216-033-00	RES,CHIP	220	5%	1/10W
R019	1-216-073-00	RES,CHIP	10K	5%	1/10W	R226	1-216-033-00	RES,CHIP	220	5%	1/10W
R021	1-216-073-00	RES,CHIP	10K	5%	1/10W	R227	1-216-033-00	RES,CHIP	220	5%	1/10W
R022	1-216-033-00	RES,CHIP	220	5%	1/10W						
R024	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R228	1-249-389-11	CARBON	4.7	5%	1/4W
						R229	1-216-073-00	RES,CHIP	10K	5%	1/10W
R025	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R231	1-216-295-91	SHORT	0		
R027	1-216-073-00	RES,CHIP	10K	5%	1/10W	R234	1-249-389-11	CARBON	4.7	5%	1/4W
R029	1-216-049-91	RES,CHIP	1K	5%	1/10W						
R031	1-216-049-91	RES,CHIP	1K	5%	1/10W	R235	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
						R236	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R035	1-216-025-91	RES,CHIP	100	5%	1/10W	R237	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R036	1-216-025-91	RES,CHIP	100	5%	1/10W	R301	1-216-073-00	RES,CHIP	10K	5%	1/10W
R037	1-216-025-91	RES,CHIP	100	5%	1/10W	R302	1-216-295-91	SHORT	0		
R040	1-216-025-91	RES,CHIP	100	5%	1/10W						
R041	1-216-025-91	RES,CHIP	100	5%	1/10W	R303	1-216-049-91	RES,CHIP	1K	5%	1/10W
						R304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R042	1-216-295-91	SHORT	0			R305	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R043	1-216-025-91	RES,CHIP	100	5%	1/10W	R306	1-216-073-00	RES,CHIP	10K	5%	1/10W
R044	1-216-025-91	RES,CHIP	100	5%	1/10W	R307	1-216-295-91	SHORT	0		
R045	1-414-233-22	INDUCTOR CHIP	0UH								
R046	1-216-049-91	RES,CHIP	1K	5%	1/10W	R308	1-216-025-91	RES,CHIP	100	5%	1/10W
- *		*				R309	1-216-025-91	RES,CHIP	100	5%	1/10W
R047	1-414-233-22	INDUCTOR CHIP	0UH			R310	1-216-025-91	RES,CHIP	100	5%	1/10W
R048	1-216-073-00	RES,CHIP	10K	5%	1/10W	R311	1-216-017-91	RES,CHIP	47	5%	1/10W
R050	1-216-073-00	RES,CHIP	10K	5%	1/10W	R312	1-216-041-00	RES,CHIP	470	5%	1/10W
R053	1-216-049-91	RES,CHIP	1K	5%	1/10W		0.1 00	, ~		- / 0	
R055	1-216-073-00	RES,CHIP	10K	5%	1/10W	R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
11033	1 210 075 00	120,0111	1011	570	1/10/11	R314	1-216-045-00	RES,CHIP	680	5%	1/10W
R056	1-216-073-00	RES,CHIP	10K	5%	1/10W	R314	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R061	1-216-073-00	RES,CHIP	220	5%	1/10W	R317	1-216-077-00	RES,CHIP	1.5K	5%	1/10W
R062	1-216-033-00	RES,CHIP	470	5%	1/10W	R318	1-216-077-00	RES,CHIP	1.2K	5%	1/10W 1/10W
11002	1 210 071 00	,	.70	570	1/10/11	1010	1 210 001 00	,	1.211	270	1/101/

# **A** (KV-XF21M80)

<b>7 %</b> (-												
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMA	RK
R319	1-216-025-91	RES.CHIP	100	5%	1/10W	R426	1-216-033-00	RES,CHIP	220	5%	1/10W	
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R505	1-216-099-00	RES,CHIP	120K	5%	1/10W	
R321	1-216-073-00	RES.CHIP	10K	5%	1/10W	R506	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R322	1-216-033-00	RES,CHIP	220	5%	1/10W	I K500	1-210-003-00	KL5,CIII	33 <b>K</b>	370	1/10**	
R326	1-216-295-91	SHORT	0	370	1/10**	R507	1-249-389-11	CARBON	4.7	5%	1/4W	F
1020	1 210 2/3 /1	SHORI	O			R508	1-215-910-00	METAL OXIDE	68	5%	3W	F
R331	1-216-295-91	SHORT	0			R509	1-215-911-11	METAL OXIDE	100	5%	3W	F
R332	1-216-033-00	RES,CHIP	220	5%	1/10W	R510	1-215-885-00	METAL OXIDE	68	5%	2W	F
						1						F
R333	1-216-073-00	RES,CHIP	10K	5%	1/10W	R511	1-215-911-11	METAL OXIDE	100	5%	3W	Г
R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W	D516	1 217 001 00	DEC CHID	2217	50/	1/10337	,
R335	1-216-045-00	RES,CHIP	680	5%	1/10W	R516	1-216-081-00	RES,CHIP	22K	5%	1/10W	
D220	1 21 6 022 00	DEG GIHD	220	50/	1 /1 0117	R518	1-247-807-31	CARBON	100	5%	1/4W	
R338	1-216-033-00	RES,CHIP	220	5%	1/10W	R520	1-215-445-00	METAL	10K	1%	1/4W	,
R340	1-216-025-91	RES,CHIP	100	5%	1/10W	R522	1-216-675-11	METAL CHIP	10K		1/10W	
R345	1-216-081-00	RES,CHIP	22K	5%	1/10W	R523	1-249-411-11	CARBON	330	5%	1/4W	
R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W							
R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R525	1-216-699-11	METAL CHIP	100K		1/10W	
						R526	1-208-798-11	RES,CHIP	4.7K		1/10W	
R348	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R527	1-216-001-00	RES,CHIP	10	5%	1/10W	
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W	R528	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	•
R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R529	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W							
R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R531	1-247-843-11	CARBON	3.3K	5%	1/4W	
						R533	1-249-417-11	CARBON	1K	5%	1/4W	
R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R534	1-216-361-00	METAL OXIDE	0.22	5%	2W	F
R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R357	1-216-079-00	RES,CHIP	18K	5%	1/10W	R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W	1.000		,		- / -	-,	
R359	1-216-033-00	RES,CHIP	220	5%	1/10W	R537	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	,
11007	1 210 000 00	1125,0111		270	1/10//	R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R360	1-216-033-00	RES,CHIP	220	5%	1/10W	R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R361	1-216-033-00	RES,CHIP	10K		1/10W 1/10W	R542		SHORT	4.7K	370	1/10 **	
		,		5%		1	1-216-295-91			£0/	1 / 4337	E
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W	R543	1-249-426-11	CARBON	5.6K	5%	1/4W	Г
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W	D544	1 215 010 00	METAL OMBE	1 577	50/	2111	_
R364	1-216-295-91	SHORT	0			R544	1-215-918-00	METAL OXIDE	1.5K	5%	3W	F
D265	1 216 022 00	DEG CHID	220	50/	1 /1 011	R545	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R365	1-216-033-00	RES,CHIP	220	5%	1/10W	R546	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R366	1-216-073-00	RES,CHIP	10K	5%	1/10W	R547	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R367	1-216-073-00	RES,CHIP	10K	5%	1/10W	R549	1-215-451-00	METAL	18K	1%	1/4W	
R370	1-216-033-00	RES,CHIP	220	5%	1/10W							
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W	R550	1-216-097-91	RES,CHIP	100K	5%	1/10W	
						R551	1-249-421-11	CARBON	2.2K	5%	1/4W	
R377	1-216-121-91	RES,CHIP	1M	5%	1/10W	R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R378	1-216-031-00	RES,CHIP	180	5%	1/10W	R553	1-215-457-00	METAL	33K	1%	1/4W	
R401	1-216-049-91	RES,CHIP	1K	5%	1/10W	R554	1-215-457-00	METAL	33K	1%	1/4W	
R402	1-216-073-00	RES,CHIP	10 <b>K</b>	5%	1/10W							
R403	1-216-073-00	RES,CHIP	10K	5%	1/10W	R556	1-215-437-00	METAL	4.7K	1%	1/4W	
						R557	1-216-345-11	METAL OXIDE	0.47	5%		F
R403	1-216-295-91	SHORT	0			R558	1-249-421-11	CARBON	2.2K	5%	1/4W	
R404	1-216-073-00	RES,CHIP	10K	5%	1/10W	R559	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-216-049-91	RES,CHIP	1K	5%	1/10W	R560	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R406	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R407	1-216-049-91	RES,CHIP	1K	5%	1/10W	R562	1-249-401-11	CARBON	47	5%	1/4W	
						R565	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R408	1-216-049-91	RES,CHIP	1K	5%	1/10W	R567	1-216-105-91	RES,CHIP	220K	5%	1/10W	
R409	1-216-041-00	RES,CHIP	470	5%	1/10W	R568	1-249-383-11	CARBON	1.5	5%	1/4W	
R410	1-216-113-00	RES,CHIP	470K	5%	1/10W	R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R411	1-216-113-00	RES,CHIP	470K	5%	1/10W			,-				
R412	1-216-041-00	RES,CHIP	470	5%	1/10W	R571	1-215-437-00	METAL	4.7K	1%	1/4W	
11.12	1 210 011 00	1125,0111	.,,	270	1/10//	R573	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R413	1-216-021-00	RES,CHIP	68	5%	1/10W	R577	1-215-913-11	METAL OXIDE	220	5%	3W	F
R413	1-216-021-00	RES,CHIP	470K	5%	1/10W 1/10W	R578	1-215-915-11	METAL OXIDE	1	5%	2W	F
R415	1-216-113-00	RES,CHIP	470K 470K	5%	1/10W	R579	1-216-309-00	RES,CHIP	100K	5%	1/10W	
R415	1-216-113-00	RES,CHIP	15K	5%	1/10W 1/10W	13/7	1-210-07/-71	KLD,CIIII	1001	5/0	1/10 44	
R410 R417	1-216-077-00	RES,CHIP	15K 15K	5% 5%	1/10W 1/10W	R580	1-216-699-11	METAL CHIP	100K	0.500/	1/10W	,
N+1/	1-210-077-00	KEO,CHIF	1JIX	J 70	1/10 **	R580	1-210-099-11	RES,CHIP	4.7K		1/10W 1/10W	
R418	1 216 112 00	RES,CHIP	470K	50/	1/10W	R585		CARBON			1/10W 1/4W	
R418 R419	1-216-113-00 1-216-022-00	RES,CHIP	470K 75	5% 5%	1/10W 1/10W	COCA	1-249-391-11	CARDON	6.8	5%	1/4 VV	Г
13417	1-410-044-00	кьэ,спіг	13	5%	1/ 1 U VV	I						

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RM-915 F

RM-95

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

## **A** (KV-XF21M80)

REF. NO.	PART NO.	DESCRIPTION			REMA	.RK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R588	1-215-888-00	METAL OXIDE	220	5%	2W	F	R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R589	1-215-888-00	METAL OXIDE	220	5%	2W	F	R680	1-215-875-00	RES,CHIP	4.7K 4.7	5%	1/10W
K369	1-213-000-00	METAL OXIDE	220	370	2 VV	Г	1					
D.500	1 215 465 00	METAL	COIZ	10/	1 / 4557		R901	1-249-411-11	CARBON	330	5%	1/4W
R590	1-215-465-00	METAL	68K	1%	1/4W	_	R902	1-249-411-11	CARBON	330	5%	1/4W
R591	1-260-288-11	CARBON	0.47	5%	1/2W		R903	1-216-022-00	RES,CHIP	75	5%	1/10W
R593	1-260-288-11	CARBON	0.47	5%	1/2W		D.O.4	4 24 5 022 00	DEG GIVE	220		4 /4 0777
R594	1-260-288-11	CARBON	0.47	5%	1/2W		R904	1-216-033-00	RES,CHIP	220	5%	1/10W
R596	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F	R905	1-216-113-00	RES,CHIP	470K	5%	1/10W
							R906	1-216-077-00	RES,CHIP	15K	5%	1/10W
R597	1-247-750-11	CARBON	680	5%	1/2W	F	R907	1-216-113-00	RES,CHIP	470K	5%	1/10W
R598	1-249-438-11	CARBON	56K	5%	1/4W		R908	1-216-077-00	RES,CHIP	15K	5%	1/10W
R599	1-249-389-11	CARBON	4.7	5%	1/4W							
R600	1-249-438-11	CARBON	56K	5%	1/4W		R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R601	1-249-418-11	CARBON	1.2K	5%	1/4W	F	R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
							R911	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R602	1-249-389-11	CARBON	4.7	5%	1/4W	F	R912	1-216-041-00	RES,CHIP	470	5%	1/10W
R603	1-215-485-00	METAL	470K	1%	1/4W		R913	1-216-049-91	RES,CHIP	1K	5%	1/10W
R604	1-216-097-91	RES,CHIP	100K	5%	1/10W							
R607	1-249-425-11	CARBON	4.7K	5%	1/4W		R914	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R608	1-240-205-91	CARBON	22M	5%	1/2W		R915	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
11000	1 2 10 200 71	CI II DOI!		270	1,2		R916	1-216-017-91	RES,CHIP	47	5%	1/10W
R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R917	1-216-041-00	RES,CHIP	470	5%	1/10W
R610	1-216-073-00	RES,CHIP	10K	5%	1/10W		R918	1-216-041-00	RES,CHIP	470	5%	1/10W
R611	1-216-073-00	RES,CHIP	47K	5%	1/10W		K916	1-210-041-00	KL5,CIII	470	370	1/ 10 VV
R612	1-216-045-00	RES,CHIP	680		1/10W							
		*		5%					DEL AV			
R614	1-216-041-00	RES,CHIP	470	5%	1/10W				<relay></relay>			
DC15	1 217 250 11	METAL OVIDE	1.2	£0/	1337	17	DV/C01 A	1 755 000 11	DELAY ACDOM	ED.		
R615	1-216-350-11	METAL OXIDE	1.2	5%	1W	F	K 1 001 2!\	. 1-755-266-11	RELAY, AC POW	EK		
R616	1-260-302-51	CARBON	6.8	5%	1/2W	Г						
R617	1-247-791-91	CARBON	22	5%	1/4W				a			
R619	1-260-128-11	CARBON	270K	5%	1/2W	_			<switch></switch>			
R620	1-215-915-11	METAL OXIDE	470	5%	3W	F	2502	4 550 505 44	arramarr r pripp			
						_	S502	1-572-707-11	SWITCH, LEVER			
R622	1-215-908-00	METAL OXIDE	33	5%	3W	F		. 1-571-433-31	SWITCH, PUSH (	,		
R623	1-216-095-00	RES,CHIP	82K	5%	1/10W		S901	1-692-431-21	SWITCH, TACTIL			
R624	1-216-089-91	RES,CHIP	47K	5%	1/10W		S902	1-692-431-21	SWITCH, TACTIL			
R626	1-216-049-91	RES,CHIP	1K	5%	1/10W		S903	1-692-431-21	SWITCH, TACTIL	Æ		
R627	1-240-251-11	CMT,MELF	6.8	5%	10W							
							S904	1-692-431-21	SWITCH, TACTIL			
R629	1-247-747-11	CARBON	470	5%	1/2W		S905	1-692-431-21	SWITCH, TACTIL			
R630	1-249-429-11	CARBON	10K	5%	1/4W		S906	1-692-431-21	SWITCH, TACTIL			
R631	1-216-089-91	RES,CHIP	47K	5%	1/10W		S907	1-692-431-21	SWITCH, TACTIL	Æ		
R632	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F						
R634 △	1-218-265-91	METAL	8.2M	5%	1W							
									<transformei< td=""><td>₹&gt;</td><td></td><td></td></transformei<>	₹>		
R635	1-216-492-11	METAL OXIDE	82K	5%	3W	F						
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F	T501	1-437-195-11	TRANSFORMER,			VE
R637	1-216-492-11	METAL OXIDE	82K	5%	3W	F	T503 △	. 1-453-293-11	TRANSFORMER		ACK	
R639	1-216-363-00	METAL OXIDE	0.33	5%	2W	F			(NX-1748//M3A4)			
R640	1-249-415-11	CARBON	680	5%	1/4W		T601	1-424-682-11	TRANSFORMER,			
								. 1-433-513-31	TRANSFORMER.		,	·
R641	1-216-362-11	METAL OXIDE	0.27	5%	2W	F	T604 <u></u>	1-431-852-11	TRANSFORMER,	CONVERTE	ER (SRT	)
R642	1-249-419-11	CARBON	1.5K	5%	1/4W							
R643	1-247-843-11	CARBON	3.3K	5%	1/4W							
R644	1-249-419-11	CARBON	1.5K	5%	1/4W				<thermistor></thermistor>			
R646	1-215-924-00	METAL OXIDE	15K	5%	3W	F						
							THP600	1-810-961-11	THERMISTOR, P	OSITIVE		
R647	1-249-401-11	CARBON	47	5%	1/4W							
R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W							
R649	1-249-417-11	CARBON	1K	5%	1/4W				<tuner></tuner>			
R650	1-215-882-00	METAL OXIDE	22	5%	2W	F						
R652	1-215-900-11	METAL OXIDE	22K	5%	2W	F	TU101	8-598-449-01	TUNER, FSS BTF	LG433		
									•			
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F						
R657	1-260-127-11	CARBON	220K	5%	1/2W							
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W							
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W							
							•					

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMA
		<crystal></crystal>				C104	1-126-933-11	ELECT	100MF	20%	16V
						C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
X001	1-579-125-11	VIBRATOR, CER.				C108	1-126-933-11	ELECT	100MF	20%	16V
X301	1-781-134-21	VIBRATOR, CRY				C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
X302	1-781-132-21	VIBRATOR, CRY	STAL			C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C112	1-126-933-11	ELECT	100MF	20%	16V
						C113	1-126-967-11	ELECT	47MF	20%	50V
********	***********	*******	******	******	******	C114	1-126-967-11	ELECT	47MF	20%	50V
						C202	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
	* A-1298-932-A	A BOARD, COMP		KF21M83	3)	C203	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
	* A 1200 052 A			ZE51146	-	C204	1-136-169-00	FILM CEDAMIC CHID	0.22MF	5%	50V
	* A-1296-935-A	A BOARD, COMP		XF31M0.	))	C205 C206	1-163-019-00 1-163-019-00	CERAMIC CHIP CERAMIC CHIP	0.0068MF 0.0068MF	10% 10%	50V 50V
						C200	1-136-169-00	FILM	0.0008WIF	5%	50V
	* 4-055-304-01	HOLDER, LED				C207	1-130-109-00	TILIVI	U.22IVII	370	30 <b>v</b>
	* 4-067-182-02	HOLDER, FBT				C208	1-126-963-11	ELECT	4.7MF	20%	50V
	4-352-844-01	PIN, LEAD, COAT	ING (KV-X	F21M83	ONLY)	C209	1-126-963-11	ELECT	4.7MF	20%	50V
	4-382-854-11	SCREW (M3X10).	,		/	C210	1-126-933-11	ELECT	100MF	20%	16V
	4-382-854-21	SCREW (M3X14)				C210	1-126-941-11	ELECT	470MF	20%	25V
			,			C212	1-126-933-11	ELECT	100MF	20%	16V
	7-685-648-79	SCREW +BVTP	3X12 TYP	E2 IT-3							
						C213	1-126-933-11	ELECT	100MF	20%	16V
						C214	1-126-942-61	ELECT	1000MF	20%	25V
		<capacitor></capacitor>				C215	1-126-942-61	ELECT	1000MF	20%	25V
						C216	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	C217	1-126-964-11	ELECT	10MF	20%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V						
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C218	1-136-167-00	FILM	0.15MF	5%	50V
C007	1-126-933-11	ELECT	100MF	20%	16V	C219	1-136-167-00	FILM	0.15MF	5%	50V
C008	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C220	1-126-942-61	ELECT	1000MF	20%	25V
G010	1 162 251 11	CED 11 HC CHID	10000	50/	5017	C221	1-126-964-11	ELECT	10MF	20%	50V
C010	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C223	1-126-965-11	ELECT	22MF	20%	50V
C012 C013	1-163-251-11 1-163-021-91	CERAMIC CHIP	100PF 0.01MF	5% 10%	50V 50V	C224	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C013	1-105-021-91	ELECT	47MF	20%	50V 50V	C224 C225	1-103-133-00	CERAMIC CHIP	1MF	10%	10V
C014	1-120-907-11	CERAMIC CHIP	0.001MF	10%	50 V 50 V	C223	1-109-982-11	CERAMIC CHIP	1MF	10%	10V 10V
C013	1-103-009-11	CERAINIC CIII	0.001111	1070	30 V	C227	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C016	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C228	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	0220	1 103 02 1 00	CLIC IVIIC CIII	0.0101111	1070	301
C019	1-104-665-11	ELECT	100MF	20%	25V	C229	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF		C230	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF		C231	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
						C232	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C030	1-126-965-11	ELECT	22MF	20%	50V	C236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C238	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C240	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V						
C034	1-163-031-11	CERAMIC CHIP	0.01MF	<b>-</b>	50V	C241	1-164-346-11	CERAMIC CHIP	1MF		16V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C242	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C243	1-216-295-91	SHORT	0 0.69ME		1617
C042	1 162 251 11	CED AMIC CLUD	100DE	50/	50V	C244	1-164-700-11	CERAMIC CHIP	0.68MF		16V
C043 C044	1-163-251-11	CERAMIC CHIP	100PF	5% 5%	50V 50V	C245	1-164-346-11	CERAMIC CHIP	1MF		16V
C044 C047	1-163-251-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP	100PF 100PF		50V 50V	C246	1 162 019 00	CERAMIC CHIP	0.0056ME	100/	50V
C047 C048	1-163-251-11	CERAMIC CHIP	100PF 100PF	5% 5%	50V 50V	C246 C247	1-163-018-00 1-164-346-11	CERAMIC CHIP	0.0056MF 1MF	10%	50 V 16 V
C048	1-163-251-11	CERAMIC CHIP	100PF 100PF	5% 5%	50 V 50 V	C247 C248	1-164-346-11	CERAMIC CHIP	0.0012MF	10%	50V
COSO	1-103-231-11	CERAINIC CHIP	TOOFI'	J 70	JU Y	C248 C249	1-163-010-11	CERAMIC CHIP	0.0012MF 0.1MF	10%	25V
C051	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C249	1-216-295-91	SHORT	0.11 <b>v</b> 11	10/0	2J V
C053	1-163-251-11	CERAMIC CHIP	100PF	5%	50V				-		
		CERAMIC CHIP	100PF	5%	50V	C251	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
	1-163-251-11	CERMIN CHI					01, 00			7	
C054 C055	1-163-251-11 1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C252	1-164-346-11	CERAMIC CHIP	1MF		16V

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C253	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C514	1-107-368-11	MYLAR	0.047MF	99%	200V
C254	1-126-965-11	ELECT	22MF	20%	50V	C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C255	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C518	1-104-665-11	ELECT	100MF	20%	10V
C0.5.		ann is ea airm	0.43.55	400/	2577	C519	1-102-212-00	CERAMIC	820PF	10%	500V
C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C521	1-126-934-11	ELECT	220MF	20%	16V
C259	1-126-933-11	ELECT CERAMIC CHIP	100MF 2.2MF	20%	16V 16V	C522	1 126 022 11	ELECT	100ME	200/	16V
C264 C265	1-164-505-11 1-164-505-11	CERAMIC CHIP	2.2MF 2.2MF		16V 16V	C522 C523	1-126-933-11 1-102-002-00	CERAMIC	100MF 680PF	20% 10%	500V
C301	1-104-305-11	ELECT	470MF	20%	16V	C523	1-102-002-00	ELECT	47MF	20%	50V
C301	1-120-933-11	ELECT	4/01 <b>VII</b>	2070	10 V	C524 C526	1-130-495-00	MYLAR	0.1MF	5%	50V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C527	1-102-820-00	CERAMIC	330PF	5%	50V
C303	1-126-964-11	ELECT	10MF	20%	50V						
C304	1-126-967-11	ELECT	47MF	20%	50V	C528	1-162-134-11	CERAMIC	470PF	10%	2KV
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C530	1-137-372-11	FILM	0.022MF	5%	50V
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C531	1-126-961-11	ELECT	2.2MF	20%	50V
						C532	1-126-941-11	ELECT	470MF	20%	25V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C533	1-126-941-11	ELECT	470MF	20%	25V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	G#24			0.43.55	=	
C309	1-126-957-11	ELECT	0.22MF	20%	50V	C536	1-136-165-00	FILM	0.1MF	5%	50V
C310	1-126-963-11	ELECT	4.7MF	20%	50V 50V	C537 C538	1-126-969-11	ELECT FILM	220MF	20%	50V 2KV
C311	1-126-964-11	ELECT	10MF	20%	30 V	C538 C539	1-136-076-00 1-129-746-91	FILM	0.0085MF 0.039MF	3% 5%	400V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V	C540	1-136-171-00	FILM	0.33MF	5%	50V
C313	1-164-346-11	CERAMIC CHIP	1MF		16V	C340	1 130 171 00	I ILIVI	0.331411	370	30 1
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C316	1-126-967-11	ELECT	47MF	20%	50V	C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C550	1-106-220-00	MYLAR	0.1MF	10%	100V
						C551	1-126-960-11	ELECT	1MF	20%	50V
C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C552	1-162-116-00	CERAMIC	680PF	10%	2KV
C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V						
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C553	1-162-116-00	CERAMIC	680PF	10%	2KV
C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C554	1-137-417-11	MYLAR	0.0047MF	10%	200V
C323	1-126-965-11	ELECT	22MF	20%	50V	C556	1-126-941-11	ELECT	470MF	20%	25V
C324	1-163-017-00	CED AMIC CHID	0.0047MF	10%	50V	C557 C558	1-126-941-11 1-123-024-21	ELECT ELECT	470MF	20%	25V 160V
C325	1-105-017-00	CERAMIC CHIP ELECT	0.0047MF 1MF	20%	50 V 50 V	C336	1-125-024-21	ELECI	33MF		100 V
C327	1-126-965-11	ELECT	22MF	20%	50V	C560	1-102-228-00	CERAMIC	470PF	10%	500V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C561	1-136-557-11	FILM	0.0033MF	5%	630V
C329	1-126-965-11	ELECT	22MF	20%	50V	C562	1-102-228-00	CERAMIC	470PF	10%	500V
						C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C565	1-107-655-11	ELECT	47MF	20%	250V
C331	1-247-807-31	CARBON	100	5%	1/4W						
C332	1-126-963-11	ELECT	4.7MF	20%	50V	C566	1-102-244-00	CERAMIC	220PF	10%	500V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C567	1-115-521-11	FILM	0.82MF	5%	250V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C568	1-102-228-00	CERAMIC	470PF	10%	500V
C227	1 126 061 11	ELECT	2.2045	200/	501	C570	1-115-520-11	FILM	0.68MF	5%	250V
C337 C338	1-126-961-11 1-163-017-00	ELECT CERAMIC CHIP	2.2MF 0.0047MF	20% 10%	50V 50V	C573	1-108-427-61	MYLAR	0.033MF	10%	200V
C338	1-105-017-00	CERAMIC CHIP	0.0047MF 0.22MF	10%	25V	C574	1-107-636-11	ELECT	10MF	20%	160V
C342	1-113-340-11	CERAMIC CHIP	220PF	5%	50V	C574	1-130-495-00	MYLAR	0.1MF	5%	50V
C401	1-164-346-11	CERAMIC CHIP	1MF	- /0	16V	C577	1-106-395-00	MYLAR	0.15MF	10%	200V
		- <del>-</del>				C582	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C402	1-164-346-11	CERAMIC CHIP	1MF		16V		1-104-705-51	FILM	0.1MF	20%	250V
C403	1-163-005-11	CERAMIC CHIP	470PF	10%	50V						
C404	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C405	1-126-935-11	ELECT	470MF	20%	16V		. 1-127-942-51	CERAMIC	330PF	10%	250V
C406	1-164-346-11	CERAMIC CHIP	1MF		16V		1-127-942-51	CERAMIC	330PF	10%	250V
C407	1 164 246 11	CED AMIC CUIP	1ME		16V	C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C407 C408	1-164-346-11 1-163-133-00	CERAMIC CHIP CERAMIC CHIP	1MF 470PF	5%	16V 50V	C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C408 C409	1-103-133-00	ELECT	470PF 4.7MF	5% 20%	50V 50V	C609	1-126-968-11	ELECT	100MF	20%	50V
C409	1-120-903-11	CERAMIC CHIP	4.7MF 470PF	20% 5%	50V 50V	C610	1-126-968-11	ELECT	100MF	20%	50V 50V
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V	C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V
2002		Oim		- /0		C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C506	1-107-638-11	ELECT	33MF	20%	160V	C613	1-117-752-11	ELECT(BLOCK) 3		20%	450V
C507	1-161-830-00	CERAMIC	0.0047MF		500V		-	,			
C510	1-102-112-00	CERAMIC	330PF	10%	50V	C614	1-126-964-11	ELECT	10MF	20%	50V
C512	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V	C616	1-130-202-00	FILM	0.022MF	10%	400V
C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	•					

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C617 C618	1-107-792-11 1-125-893-11	CERAMIC FILM	100PF 680PF	5% 3%	1KV 1.5KV	CN307 *	* 1-774-813-11	CONNECTOR, BOARD TO BO XF51M65 ONLY)	ARD 7P (KV-
C619	1-119-886-51	CERAMIC	470PF	10%	250V	CN505	1-508-765-00	PIN, CONNECTOR (5MM PITC	CH) 3P
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	CN506	4-352-844-01	PIN, LEAD, COATING	
C621 C622	1-102-114-00 1-102-074-00	CERAMIC CERAMIC	470PF 0.001MF	10% 10%	50V 50V		* 1-564-507-11 * 1-580-843-11	PLUG, CONNECTOR 4P PIN, CONNECTOR (POWER)	
C622	1-102-074-00	ELECT	100MF	20%	25V		* 1-508-786-00	PIN, CONNECTOR (FOWER)	'H) 2P
C624	1-104-331-11	CERAMIC	0.0022MF	10%	1KV		* 1-573-963-11	PIN, CONNECTOR (PC BOARI	,
C625	1-102-002-00	CERAMIC	680PF	10%	500V		* 1-564-507-11	PLUG, CONNECTOR 4P	
C627	1-102-002-00	CERAMIC	680PF	10%	500V		* 1-508-784-21	PIN, CONNECTOR (5MM PITC	CH) 1P
C628 C629	1-126-942-61 1-126-964-11	ELECT ELECT	1000MF 10MF	20% 20%	25V 50V	CN901	* 1-564-509-11	PLUG, CONNECTOR 6P	
C630	1-123-024-21	ELECT	33MF	2070	160V			COMPOSITION CIRCLUT DI	OCK-
C631	1-128-550-11	ELECT	2200MF	20%	50V			< COMPOSITION CIRCUIT BL	OCK>
C633	1-104-999-11	MYLAR	0.1MF	10%	200V	CP301	1-467-554-21	FILTER BLOCK, COMB	
C634	1-126-933-11	ELECT	100MF	20%	16V				
C635	1-104-665-11	ELECT	100MF	20%	10V				
C636	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V			<diode></diode>	
C639	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D001	8-719-988-61	DIODE 1SS355TE-17	
C640	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D005	8-719-988-61	DIODE 1SS355TE-17	
C641	1-102-002-00	CERAMIC	680PF	10%	500V	D006	8-719-988-61	DIODE 1SS355TE-17	
C642	1-126-943-11	ELECT	2200MF	20%	25V	D100	8-719-404-50	DIODE MA111-TX (KV-XF51M	165 ONLY)
C643	1-104-665-11	ELECT	100MF	20%	10V	D203	8-719-914-42	DIODE DA204K	
C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV	D300	1-216-295-91	SHORT 0	
C645 C646	1-137-605-11 1-107-679-41	FILM ELECT	0.01MF 10MF	10% 20%	250V 450V	D301 D306	8-719-988-61 8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C647	1-107-079-41	CERAMIC CHIP	0.001MF	5%	50V	D300 D307	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C649	1-126-940-11	ELECT	330MF	20%	25V	D308	8-719-988-61	DIODE 1SS355TE-17	
C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	D309	8-719-159-10	DIODE RD5.1SB-T2	
C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D311	8-719-988-61	DIODE 1SS355TE-17	
C652	1-126-965-11	ELECT	22MF	20%	50V	D312	8-719-988-61	DIODE 1SS355TE-17	
C653 C657	1-104-664-11 1-101-821-00	ELECT CERAMIC	47MF 0.0022MF	20%	25V 500V	D313 D314	8-719-988-61 8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
				100/					
C658	1-164-004-11 1-136-153-00	CERAMIC CHIP	0.1MF 0.01MF	10%	25V 50V	D315	8-719-988-61	DIODE UDZS TE17 6 PR	
C901 C902	1-136-153-00	FILM FILM	0.01MF	5% 5%	50V 50V	D316 D401	8-719-069-57 8-719-158-35	DIODE UDZS-TE17-6.8B DIODE RD9.1SB	
C905	1-126-963-11	ELECT	4.7MF	20%	50V	D401 D402	8-719-158-35	DIODE RD9.1SB	
C906	1-164-346-11	CERAMIC CHIP	1MF	2070	16V	D403	8-719-158-35	DIODE RD9.1SB	
C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D404	8-719-158-35	DIODE RD9.1SB	
C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D405	8-719-158-35	DIODE RD9.1SB	
C909	1-164-346-11	CERAMIC CHIP	1MF	200/	16V	D406	8-719-158-35	DIODE RD9.1SB	
C910 C911	1-126-967-11 1-126-967-11	ELECT ELECT	47MF 47MF	20% 20%	50V 50V	D504 D505	8-719-302-43 8-719-988-61	DIODE EL1Z DIODE 1SS355TE-17	
C912 C913	1-164-004-11 1-126-933-11	CERAMIC CHIP ELECT	0.1MF 100MF	10% 20%	25V 16V	D506 D507	8-719-911-19 8-719-988-61	DIODE 1SS119-25 DIODE 1SS355TE-17	
C913	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D507	8-719-988-61	DIODE 1SS355TE-17 DIODE 1SS355TE-17	
6711	1 103 133 00	CERTIFIC CITI	17011	570	30 1	D509	1-216-073-00	RES,CHIP 10K	5% 1/10W
		<connector></connector>				D510	8-719-988-61	DIODE 1SS355TE-17	
		COMMECTOR>				D511	8-719-988-61	DIODE 1SS355TE-17	
CN104	1-695-915-11	TAB (CONTACT)				D512	8-719-988-61	DIODE 1SS355TE-17	
	1-564-510-11	PLUG, CONNECT				D513	8-719-908-03	DIODE GP08D	
	1-785-608-11	PIN, CONNECTO				D517	8-719-945-80	DIODE ERC06-15S	
	* 1-564-506-11 * 1-564-506-11	PLUG, CONNECT PLUG, CONNECT				D518	8-719-900-26	DIODE ERD29-08J	
						D521	8-719-302-43	DIODE EL1Z	
CN301 *	1-774-813-11	CONNECTOR, BO	DARD TO BO	OARD 71	P (KV-	D522	8-719-302-43	DIODE EL1Z	
CN1205 4	k 1 564 500 11	XF51M65 ONLY)	OD O			D523	8-719-302-43	DIODE CROSD	
	* 1-564-509-11 * 1-564-510-11	PLUG, CONNECT PLUG, CONNECT				D527 D528	8-719-908-03 8-719-908-03	DIODE GP08D DIODE GP08D	
C11300	1 204-210-11	. LOO, CONNECT	JR /1			2220	0 117-700-03	DIODE OF OOD	

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R	EF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	D531	8-719-988-61	DIODE 1SS355TE	.17				<ic></ic>		
	0532	8-719-988-61	DIODE 1SS355TE					\IC>		
	0602	8-719-911-19	DIODE 1SS119-25	-17		IC001	8-752-905-21	IC CXP86449-6158	2	
	0603	8-719-150-92	DIODE RD33EB37	7		IC001 IC002	8-759-371-21	IC MM1319AFBE	3	
	)604	8-719-130-92	DIODE RGP02-171			IC002 IC003	8-759-370-34	IC ST24C08FB6		
1	700 <del>4</del>	0-719-020-72	DIODE KOI 02-171	3L-0433		IC100	8-759-042-02		C (VV VE51M65 ON	II <b>V</b> )
т	2605	8-719-510-53	DIODE DACREOI						S (KV-XF51M65 ON	NLI)
	0605		DIODE D4SB60L	4		IC201	8-759-339-60	IC TA8248K		
	0606	8-719-108-18	THYRISTOR 5P6N			10202	0.750.552.40	IC TD 4 7 4 2 0 C		
	0607	8-719-404-50	DIODE MA111-TX			IC203	8-759-553-40	IC TDA7429S		
	0608	8-719-110-53	DIODE RD20ESB2	2		IC301	8-752-088-39	IC CXA2130S		
1	D609	8-719-311-31	DIODE RU-1P			IC502	8-759-700-07	IC NJM2903M		
	2610	0.710.042.76	DIODE AVOIVO			IC503	8-759-980-58	IC TDA8172		
	0610	8-719-043-76	DIODE ALL 017 V	1		IC601	8-749-013-75	IC STR-F6654		
	0611	8-719-046-74	DIODE AU-01Z-V			1000	0.740.020.61	IC CE 125N		
	0613	8-719-046-74	DIODE AU-01Z-V			IC602	8-749-920-61	IC SE-135N		
	0614	8-719-046-74	DIODE AU-01Z-V	I		IC603	8-759-701-59	IC NJM78M09FA		
1	0616	8-719-067-18	DIODE RN4Z			IC604	8-759-231-53	IC TA7805S	~·	
	><10	0.710.067.10	DIODE DIVIZ			IC901	8-742-014-11	HYB IC SBX1981-	-51	
	0618	8-719-067-18	DIODE RN4Z	,						
	0620	8-719-110-72	DIODE RD30ESB2					ALACIZ:		
	0622	8-719-071-39	DIODE PTZ TT11					<jack></jack>		
	0623	8-719-978-65	DIODE MALLETY			1401	1 770 050 11	IACK DI OCK PR	J. CD	
1	0624	8-719-404-50	DIODE MA111-TX	1		J401	1-779-850-11	JACK BLOCK, PIN	N OP	
	2625	0.710.150.20	DIODE DD100D			J902	1-770-329-11	JACK, PIN 3P		
	0625	8-719-158-39	DIODE RD10SB	75						
	0627	8-719-073-84	DIODE 31DQ06-F	L3				CHID CONDITION	OD.	
	0628 0631	8-719-911-19 8-719-068-00	DIODE 1SS119-25 DIODE ERC04-069	NE				<chip conduct<="" td=""><td>.UK&gt;</td><td></td></chip>	.UK>	
	0632	8-719-068-00	DIODE ERC04-06.			JR002	1-216-295-91	SHORT	0	
1	7032	0-719-000-00	DIODE ERCU4-00.	DE .		JR002 JR003	1-216-295-91	SHORT	0	
т	0633	8-719-948-45	DIODE ERA22-08			JR003 JR004	1-216-295-91	SHORT	0	
	0634	8-719-404-50	DIODE MA111-TX	,		JR004 JR005	1-216-295-91	SHORT	0	
	0635	8-719-404-50	DIODE MA111-TX			JR005 JR006	1-216-295-91	SHORT	0	
	0636	8-719-404-30	DIODE DINS4	1		JKOOO	1-210-293-91	SHOKI	U	
	)637	8-719-310-02	DIODE RD6.8ESB	1		JR007	1-216-295-91	SHORT	0	
1	7037	0-719-109-90	DIODE KD0.0E3D	1		JR007 JR008	1-216-295-91	SHORT	0	
Т	0638	8-719-510-48	DIODE D1N20R			JR009	1-216-295-91	SHORT	0	
	0901	8-719-158-35	DIODE RD9.1SB			JR010	1-216-295-91	SHORT	0	
	0902	8-719-158-35	DIODE RD9.1SB			JR010	1-216-295-91	SHORT	0	
	0903	8-719-158-35	DIODE RD9.1SB			31011	1 210 2)3 )1	SHORI	O	
	0904	8-719-158-35	DIODE RD9.1SB			JR012	1-216-295-91	SHORT	0	
-	.,	0 /15 100 00	DIODETEDATED			JR013	1-216-295-91	SHORT	0	
ī	0905	8-719-158-35	DIODE RD9.1SB			JR014	1-216-295-91	SHORT	0	
	0906	8-719-045-19	DIODE SPB-26MV	WF		JR015	1-216-295-91	SHORT	0	
-	,,,,	0 /1/ 0 10 1/	510525152011			JR016	1-216-295-91	SHORT	0	
								-		
			<connector></connector>			JR018	1-216-295-91	SHORT	0	
						JR019	1-216-295-91	SHORT	0	
Ι	OY1 *	1-580-798-11	CONNECTOR PIN	(DY) 6P		JR102	1-216-295-91	SHORT	0	
				( ) -		JR107	1-216-295-91	SHORT	0 (KV-XF51M65 O	NLY)
						JR109	1-216-295-91	SHORT	0 (KV-XF21M83 O	
			<ferrite bead<="" td=""><td>&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td></ferrite>	>						
						JR202	1-216-295-91	SHORT	0	
F	B103	1-410-397-21	FERRITE	1.1UH		JR301	1-216-295-91	SHORT	0	
F	B501	1-410-397-21	FERRITE	1.1UH		JR303	1-216-295-91	SHORT	0	
F	B502	1-410-397-21	FERRITE	1.1UH		JR401	1-216-295-91	SHORT	0	
F	FB600	1-410-397-21	FERRITE	1.1UH		JR403	1-216-295-91	SHORT	0	
F	B601	1-410-397-21	FERRITE	1.1UH						
						JR404	1-216-295-91	SHORT	0	
	B602	1-410-397-21	FERRITE	1.1UH		JR405	1-216-295-91	SHORT	0	
	B603	1-410-397-21	FERRITE	1.1UH		JR500	1-216-295-91	SHORT	0	
	B604	1-410-397-21	FERRITE	1.1UH		JR501	1-216-295-91	SHORT	0	
	B605	1-412-911-31	FERRITE	0UH		JR600	1-216-295-91	SHORT	0	
F	B607	1-410-397-21	FERRITE	1.1UH						
	B608	1-412-911-31	FERRITE	0UH				<coil></coil>		
	B611	1-410-397-21	FERRITE	1.1UH		•		n.m	407777	
	B613	1-410-397-21	FERRITE	1.1UH		L002	1-414-856-11	INDUCTOR	10UH	
F	B615	1-410-397-21	FERRITE	1.1UH	·	L003	1-414-180-11	INDUCTOR	3.3UH	

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## **A** (KV-XF21M83/XF51M65)

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

	<u> </u>		,							
REF. NO	O. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
L005	1-414-233-22	INDUCTOR CHIP	OUT		Q315	8-729-421-19	TRANSISTOR UN	2212		
L101	1-414-255-22	INDUCTOR CHIP INDUCTOR	10UH		Q313 Q401	8-729-421-19	TRANSISTOR UN			
L101	1-414-856-11	INDUCTOR	10UH		Q401 Q402	8-729-424-67	TRANSISTOR UN			
L102	1-414-650-11	INDUCTOR	10011		Q402 Q403	8-729-216-22	TRANSISTOR ON			
L103	1-414-856-11	INDUCTOR	10UH		Q403 Q404	8-729-216-22	TRANSISTOR 2SA			
L103	1-414-856-11	INDUCTOR	10UH		Q404	0-729-210-22	TRANSISTOR 2SA	A1102-U		
L104 L105	1-414-856-11	INDUCTOR	10UH		Q503	8-729-230-49	TRANSISTOR 2SO	22712-VG		
L204	1-414-856-11	INDUCTOR	10UH		Q505 Q505	8-729-931-45	TRANSISTOR 2SC			
L301	1-414-189-31	INDUCTOR	100H		Q505 Q506	8-729-140-96	TRANSISTOR IN			
L301	1-414-107-31	INDUCTOR	100011		Q500 Q507	8-729-216-22	TRANSISTOR 2SA			
L302	1-414-185-41	INDUCTOR	22UH		Q507 Q509	8-729-230-49	TRANSISTOR 2SO			
L501	1-412-525-31	INDUCTOR	10UH		Q307	0 12) 230 4)	TRANSISTOR 250	22/12 10		
L502	1-422-613-11	COIL, AIR CORE	10011		Q511	8-729-048-07	TRANSISTOR 2SI	02578-CA		
L503	1-412-525-31	INDUCTOR	10UH		Q601	8-729-023-22	TRANSISTOR 2SI			
L504	1-412-525-31	INDUCTOR	10UH		Q602	8-729-230-49	TRANSISTOR 2SO			
1201	1 112 323 31	II Decroit	10011		Q603	8-729-424-08	TRANSISTOR UN			
L505	1-412-525-31	INDUCTOR	10UH		Q604	8-729-200-17	TRANSISTOR 2SA			
L506	1-412-525-31	INDUCTOR	10UH		200.	0 /2/ 200 1/	111111111111111111111111111111111111111	11071 0		
L507	1-459-111-00	INDUCTOR	10MMH		Q605	8-729-044-30	TRANSISTOR 2SI	C2845-LB102		
L508	1-412-525-31	INDUCTOR	10UH		Q606	8-729-230-49	TRANSISTOR 2SO			
L509	1-459-390-00	INDUCTOR	390UH		Q607	8-729-922-37	TRANSISTOR 2SI		7	
1200	1 157 570 00	II Decroit	370011		Q608	8-729-230-49	TRANSISTOR 2SO			
L510	1-416-972-11	COIL, HORIZONT	AL LINEARITY		Q901	8-729-421-19	TRANSISTOR UN			
L512	1-412-549-31	INDUCTOR	1MMH		Q>01	0 /2/ 121 1/	THE HOLD TOTAL OF			
L513	1-412-549-31	INDUCTOR	1MMH		O902	8-729-421-19	TRANSISTOR UN	2213		
L515	1-459-104-00	COIL, WITH CORI			2,02	0 /2/ 121 1/	THE HOLD TOTAL OF			
L518	1-408-611-31	INDUCTOR	47UH							
	- 100 011 01		.,				<resistor></resistor>			
L601	1-412-527-11	INDUCTOR	15UH							
L901	1-408-603-31	INDUCTOR	10UH		R001	1-414-233-22	INDUCTOR CHIP	0UH		
L902	1-408-603-31	INDUCTOR	10UH		R002	1-216-025-91	RES,CHIP	100	5%	1/10W
L905	1-414-856-11	INDUCTOR	10UH		R003	1-216-073-00	RES,CHIP	10K	5%	1/10W
					R004	1-216-025-91	RES,CHIP	100	5%	1/10W
					R005	1-216-025-91	RES,CHIP	100	5%	1/10W
		<photo couple<="" td=""><td>ER&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></photo>	ER>							
					R007	1-216-295-91	SHORT	0		
PH600	△ 8-749-924-35	PHOTO COUPLER	R ON3171-R		R008	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
					R010	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
					R011	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		<ic link=""></ic>			R012	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
PS200	1-532-675-21	LINK, IC 1.5A/150	V		R013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
					R014	1-216-025-91	RES,CHIP	100	5%	1/10W
					R015	1-216-025-91	RES,CHIP	100	5%	1/10W
		<transistor></transistor>			R016	1-216-025-91	RES,CHIP	100	5%	1/10W
					R017	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q002	8-729-230-49	TRANSISTOR 2SO								
Q003	8-729-424-08	TRANSISTOR UN			R018	1-216-033-00	RES,CHIP	220	5%	1/10W
Q004	8-729-421-22	TRANSISTOR UN			R019	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q101	8-729-230-49	TRANSISTOR 2SO			R021	1-216-073-00	RES,CHIP	10 <b>K</b>	5%	1/10W
Q201	8-729-424-67	TRANSISTOR UN	2216		R022	1-216-033-00	RES,CHIP	220	5%	1/10W
					R024	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q202	8-729-424-67	TRANSISTOR UN								
Q203	8-729-421-19	TRANSISTOR UN			R025	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q204	8-729-216-22	TRANSISTOR 2SA			R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q205	8-729-421-19	TRANSISTOR UN			R027	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q206	8-729-421-19	TRANSISTOR UN	2213		R028	1-216-073-00	RES,CHIP	10K	5%	1/10W
	0.720 12: ::	mp	20010		Door.	1 01 - 01	(KV-XF51M65 ON	,	<b>F</b> ~ .	1/10***
Q207	8-729-421-19	TRANSISTOR UN			R029	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q301	8-729-216-22	TRANSISTOR 2SA			D		DD0 07-	4.77	<b>-</b>	4 /4 077
Q302	8-729-230-49	TRANSISTOR 2SC			R031	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q303	8-729-216-22	TRANSISTOR 2SA			R035	1-216-025-91	RES,CHIP	100	5%	1/10W
Q305	8-729-216-22	TRANSISTOR 2SA	A1162-G		R036	1-216-025-91	RES,CHIP	100	5%	1/10W
		mp			R037	1-216-025-91	RES,CHIP	100	5%	1/10W
Q306	8-729-216-22	TRANSISTOR 2SA			R040	1-216-025-91	RES,CHIP	100	5%	1/10W
Q307	8-729-230-49	TRANSISTOR 2SC					PP6 6	400		4.46
Q308	8-729-216-22	TRANSISTOR 2SA			R041	1-216-025-91	RES,CHIP	100	5%	1/10W
Q312	8-729-216-22	TRANSISTOR 2SA			R042	1-216-295-91	SHORT	0	<b>5</b> 07	1/10337
Q313	8-729-230-49	TRANSISTOR 2SC	Z2/12-YG		R043	1-216-025-91	RES,CHIP	100	5%	1/10W

							L-	_ ,			
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R044	1-216-025-91	RES,CHIP	100	5%	1/10W	R301	1-216-073-00	RES,CHIP	10K	5%	1/10W
R045	1-414-233-22	INDUCTOR CHIP		270	1,1011	R302	1-216-295-91	SHORT	0	270	1,1011
						R303	1-216-049-91	RES,CHIP	1K	5%	1/10W
R046	1-216-049-91	RES,CHIP	1K	5%	1/10W			,-			
R047	1-414-233-22	INDUCTOR CHIP	0UH			R304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R048	1-216-073-00	RES,CHIP	10K	5%	1/10W	R305	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R050	1-216-073-00	RES,CHIP	10K	5%	1/10W	R306	1-216-073-00	RES,CHIP	10K	5%	1/10W
R053	1-216-049-91	RES,CHIP	1K	5%	1/10W	R307	1-216-295-91	SHORT	0		
						R308	1-216-025-91	RES,CHIP	100	5%	1/10W
R055	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R056	1-216-073-00	RES,CHIP	10K	5%	1/10W	R309	1-216-025-91	RES,CHIP	100	5%	1/10W
R061	1-216-033-00	RES,CHIP	220	5%	1/10W	R310	1-216-025-91	RES,CHIP	100	5%	1/10W
R062	1-216-041-00	RES,CHIP	470	5%	1/10W	R311	1-216-017-91	RES,CHIP	47	5%	1/10W
R063	1-216-037-00	RES,CHIP	330	5%	1/10W	R312	1-216-041-00	RES,CHIP	470	5%	1/10W
						R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R064	1-216-037-00	RES,CHIP	330	5%	1/10W						
R065	1-216-037-00	RES,CHIP	330	5%	1/10W	R314	1-216-045-00	RES,CHIP	680	5%	1/10W
R066	1-216-049-91	RES,CHIP	1K	5%	1/10W	R316	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R101	1-216-025-91	RES,CHIP	100	5%	1/10W	R317	1-216-077-00	RES,CHIP	15K	5%	1/10W
		(KV-XF51M65 ON	LY)			R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R102	1-216-025-91	RES,CHIP	100	5%	1/10W	R319	1-216-025-91	RES,CHIP	100	5%	1/10W
		(KV-XF51M65 ON	LY)								
						R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R105	1-216-295-91	SHORT	0			R321	1-216-073-00	RES,CHIP	10K	5%	1/10W
R109	1-216-041-00	RES,CHIP	470	5%	1/10W	R322	1-216-033-00	RES,CHIP	220	5%	1/10W
R111	1-216-025-91	RES,CHIP	100	5%	1/10W	R326	1-216-295-91	SHORT	0		
R112	1-216-025-91	RES,CHIP	100	5%	1/10W	R331	1-216-295-91	SHORT	0		
R113	1-216-047-91	RES,CHIP	820	5%	1/10W						
						R332	1-216-033-00	RES,CHIP	220	5%	1/10W
R202	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R333	1-216-073-00	RES,CHIP	10K	5%	1/10W
R203	1-216-049-91	RES,CHIP	1K	5%	1/10W	R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R204	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R335	1-216-045-00	RES,CHIP	680	5%	1/10W
R205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R338	1-216-033-00	RES,CHIP	220	5%	1/10W
R206	1-216-049-91	RES,CHIP	1K	5%	1/10W						
						R340	1-216-025-91	RES,CHIP	100	5%	1/10W
R207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R345	1-216-081-00	RES,CHIP	22K	5%	1/10W
R208	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R211	1-216-033-00	RES,CHIP	220	5%	1/10W	R348	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R212	1-216-033-00	RES,CHIP	220	5%	1/10W						
						R349	1-216-073-00	RES,CHIP	10K	5%	1/10W
R213	1-216-073-00	RES,CHIP	10K	5%	1/10W	R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R214	1-216-073-00	RES,CHIP	10K	5%	1/10W	R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R215	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R216	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W						
						R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R218	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R357	1-216-079-00	RES,CHIP	18K	5%	1/10W
R219	1-216-025-91	RES,CHIP	100	5%	1/10W	R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R220	1-216-025-91	RES,CHIP	100	5%	1/10W	R359	1-216-033-00	RES,CHIP	220	5%	1/10W
R221	1-216-295-91	SHORT	0			R360	1-216-033-00	RES,CHIP	220	5%	1/10W
R222	1-216-295-91	SHORT	0								
						R361	1-216-073-00	RES,CHIP	10K	5%	1/10W
R225	1-216-033-00	RES,CHIP	220	5%	1/10W	R362	1-216-075-00	RES,CHIP	12K	5%	1/10W
R226	1-216-033-00	RES,CHIP	220	5%	1/10W	R363	1-216-079-00	RES,CHIP	18K	5%	1/10W
R227	1-216-033-00	RES,CHIP	220	5%	1/10W	R364	1-216-295-91	SHORT	0		
R228	1-249-389-11	CARBON	4.7	5%	1/4W	R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R229	1-216-073-00	RES,CHIP	10K	5%	1/10W						
						R366	1-216-073-00	RES,CHIP	10K	5%	1/10W
R230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R367	1-216-073-00	RES,CHIP	10K	5%	1/10W
		(KV-XF21M83)				R370	1-216-033-00	RES,CHIP	220	5%	1/10W
R230	1-216-073-00	RES,CHIP	10K	5%	1/10W	R375	1-216-025-91	RES,CHIP	100	5%	1/10W
		(KV-XF51M65)				R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R231	1-216-295-91	SHORT	0								
R234	1-249-389-11	CARBON	4.7	5%	1/4W	R377	1-216-121-91	RES,CHIP	1M	5%	1/10W
R235	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R378	1-216-031-00	RES,CHIP	180	5%	1/10W
						R401	1-216-049-91	RES,CHIP	1K	5%	1/10W
R236	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R402	1-216-073-00	RES,CHIP	10K	5%	1/10W
R237	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R403	1-216-073-00	RES,CHIP	10K	5%	1/10W

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**A** (KV-XF21M83/XF51M65)

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REF. NO.	PART NO.	DESCRIPTION			REMA	RK	REF. NO.	PART NO.	DESCRIPTION			REMA	.RK
R404	1-216-073-00	RES.CHIP	10K	5%	1/10W		R562	1-249-401-11	CARBON	47	5%	1/4W	
R405	1-216-049-91	RES,CHIP	1K	5%	1/10W		R565	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R406	1-216-073-00	RES,CHIP	10K	5%	1/10W		R567	1-216-105-91	RES,CHIP	220K	5%	1/10W	
R407	1-216-049-91	RES,CHIP	1K	5%	1/10W				,				
R408	1-216-049-91	RES,CHIP	1K	5%	1/10W		R568	1-249-383-11	CARBON	1.5	5%	1/4W	F
							R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R409	1-216-041-00	RES,CHIP	470	5%	1/10W		R571	1-215-437-00	METAL	4.7K	1%	1/4W	
R410	1-216-113-00	RES,CHIP	470K	5%	1/10W		R573	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R411	1-216-113-00	RES,CHIP	470K	5%	1/10W		R577	1-215-913-11	METAL OXIDE	220	5%	3W	F
R412	1-216-041-00	RES,CHIP	470	5%	1/10W								
R413	1-216-021-00	RES,CHIP	68	5%	1/10W		R578	1-216-369-00	METAL OXIDE	1	5%	2W	F
							R579	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R414	1-216-113-00	RES,CHIP	470K	5%	1/10W		R580	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R415	1-216-113-00	RES,CHIP	470K	5%	1/10W		R581	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W	
R416	1-216-077-00	RES,CHIP	15K	5%	1/10W		R585	1-249-391-11	CARBON	6.8	5%	1/4W	F
R417	1-216-077-00	RES,CHIP	15K	5%	1/10W								
R418	1-216-113-00	RES,CHIP	470K	5%	1/10W		R588	1-215-888-00	METAL OXIDE	220	5%	2W	F
							R589	1-215-888-00	METAL OXIDE	220	5%	2W	F
R419	1-216-022-00	RES,CHIP	75	5%	1/10W		R590	1-215-465-00	METAL	68K	1%	1/4W	
R426	1-216-033-00	RES,CHIP	220	5%	1/10W		R591	1-260-288-11	CARBON	0.47	5%	1/2W	F
R505	1-216-099-00	RES,CHIP	120K	5%	1/10W		R593	1-260-288-11	CARBON	0.47	5%	1/2W	F
R506	1-216-085-00	RES,CHIP	33K	5%	1/10W								
R507	1-249-389-11	CARBON	4.7	5%	1/4W	F	R594	1-260-288-11	CARBON	0.47	5%	1/2W	F
							R596	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R508	1-215-910-00	METAL OXIDE	68	5%		F	R597	1-247-750-11	CARBON	680	5%	1/2W	F
R509	1-215-911-11	METAL OXIDE	100	5%		F	R598	1-249-438-11	CARBON	56K	5%	1/4W	
R510	1-215-885-00	METAL OXIDE	68	5%	2W	F	R599	1-249-389-11	CARBON	4.7	5%	1/4W	
R511	1-215-911-11	METAL OXIDE	100	5%		F							
R516	1-216-081-00	RES,CHIP	22K	5%	1/10W		R600	1-249-438-11	CARBON	56K	5%	1/4W	
							R601	1-249-418-11	CARBON	1.2K	5%	1/4W	
R518	1-247-807-31	CARBON	100	5%	1/4W		R602	1-249-389-11	CARBON	4.7	5%	1/4W	F
R520	1-215-445-00	METAL	10K	1%	1/4W		R603	1-215-485-00	METAL	470K	1%	1/4W	
R522	1-216-675-11	METAL CHIP	10K		1/10W		R604	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R523	1-249-411-11	CARBON	330	5%	1/4W								
R525	1-216-699-11	METAL CHIP	100K	0.50%	1/10W		R606	1-216-308-00	RES,CHIP	4.7	5%	1/10W	
							R607	1-249-425-11	CARBON	4.7K	5%	1/4W	
R526	1-208-798-11	RES,CHIP	4.7K		1/10W		R608	1-240-205-91	CARBON	22M	5%	1/2W	
R527	1-216-001-00	RES,CHIP	10	5%	1/10W		R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R528	1-216-683-11	METAL CHIP	22K		1/10W		R610	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R529	1-216-635-11	METAL CHIP	220		1/10W								
R531	1-247-843-11	CARBON	3.3K	5%	1/4W		R611	1-216-089-91	RES,CHIP	47K	5%	1/10W	
D. 500	4.040.445.44	GIRRON	4.77	=	4 / 4***		R612	1-216-045-00	RES,CHIP	680	5%	1/10W	
R533	1-249-417-11	CARBON	1K	5%	1/4W	_	R614	1-216-041-00	RES,CHIP	470	5%	1/10W	
R534	1-216-361-21	METAL OXIDE	0.22	5%		F	R615	1-216-350-11	METAL OXIDE	1.2	5%		
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W		R616	1-260-302-51	CARBON	6.8	5%	1/2W	F
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W		DC17	1 247 701 01	CARRON	22	£0/	1 / 4337	
R537	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		R617	1-247-791-91	CARBON	22 270V	5%	1/4W	
D540	1-216-065-91	RES,CHIP	4.7K	50/	1/10W		R619	1-260-128-11 1-215-915-11	CARBON METAL OXIDE	270K 470	5%	1/2W 3W	F
R540	1-216-065-91	RES,CHIP	4.7K 4.7K	5% 5%	1/10W 1/10W		R620	1-215-915-11		8.2	5%	3W	г F
R541 R542	1-216-065-91	SHORT	4./K 0	5%	1/1UW		R622 R623	1-216-400-11	METAL OXIDE RES,CHIP	8.2 82K	5% 5%	1/10W	
R543	1-249-426-11	CARBON	5.6K	5%	1/4W	С	K023	1-210-093-00	кез,спіг	02K	370	1/10 W	
R545	1-249-420-11	RES,CHIP	15K	5%	1/4 W	Г	R624	1-216-089-91	RES,CHIP	47K	5%	1/10W	
K343	1-210-077-00	KL5,CIII	1310	370	1/10 <b>vv</b>		R626	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R546	1-216-077-00	RES,CHIP	15K	5%	1/10W		R627	1-240-251-11	CMT,MELF	6.8	5%	10W	
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W		R629	1-247-747-11	CARBON	470	5%	1/2W	F
R549	1-215-451-00	METAL	18K	1%	1/4W		R630	1-249-429-11	CARBON	10K	5%	1/4W	
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W		1050	1 2 17 127 11	Critabort	1011	570	1/ 111	•
R551	1-249-421-11	CARBON	2.2K	5%	1/4W		R631	1-216-089-91	RES,CHIP	47K	5%	1/10W	
1031	1 247 421 11	CHILDOIN	2.21	370	1/4**		R632	1-202-933-61	FUSIBLE	0.1	10%	1/2W	
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W			1-218-265-91	METAL	8.2M	5%	1W	
R553	1-215-457-00	METAL	33K	1%	1/4W		R635	1-216-492-21	METAL OXIDE	82K	5%	3W	F
R554	1-215-457-00	METAL	33K	1%	1/4W		R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R556	1-215-437-00	METAL	4.7K	1%	1/4W			/2. 00	OINDE		- /0		-
R558	1-249-421-11	CARBON	2.2K	5%	1/4W		R637	1-216-492-21	METAL OXIDE	82K	5%	3W	F
	, .= <b>.</b>						R639	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R559	1-249-429-11	CARBON	10K	5%	1/4W		R640	1-249-415-11	CARBON	680	5%	1/4W	
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W		R641	1-216-362-11	METAL OXIDE	0.27	5%	2W	F
		•					R642	1-249-419-11	CARBON	1.5K	5%	1/4W	

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

#### **A** (KV-XF21M83/XF51M65)

REF. NO.	PART NO.	DESCRIPTION			REMA	RK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R643	1-247-843-11	CARBON	3.3K	5%	1/4W				<thermistor></thermistor>			
R644	1-249-419-11	CARBON	1.5K	5%	1/4W							
R646	1-215-924-00	METAL OXIDE	15K	5%	3W	F	THP600	1-810-961-11	THERMISTOR, PO	OSITIVE		
R647	1-249-401-11	CARBON	47	5%	1/4W							
R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W							
									<tuner></tuner>			
R649	1-249-417-11	CARBON	1K	5%	1/4W							
R650	1-215-882-00	METAL OXIDE	22	5%	2W	F	TU101	8-598-449-01	TUNER, FSS BTF-	LG433 (KV-2	KF21M8	3)
R652	1-215-900-11	METAL OXIDE	22K	5%	2W	F	TU101	8-598-451-00	TUNER, FSS BTF-	WG441 (KV-	XF51M	55)
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F						
R657	1-260-127-11	CARBON	220K	5%	1/2W							
									<crystal></crystal>			
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W							
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W		X001	1-579-125-11	VIBRATOR, CERA			
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F	X301	1-781-134-21	VIBRATOR, CRYS			
R680	1-216-308-00	RES,CHIP	4.7	5%	1/10W		X302	1-781-132-21	VIBRATOR, CRYS	STAL		
R901	1-249-411-11	CARBON	330	5%	1/4W							
D000		GIRRON	220	<b>-</b>	4 / 4***							
R902	1-249-411-11	CARBON	330	5%	1/4W							
R903	1-216-022-00	RES,CHIP	75	5%	1/10W							
R904	1-216-033-00	RES,CHIP	220	5%	1/10W		********	************	******	*******	******	*******
R905	1-216-113-00	RES,CHIP	470K	5%	1/10W							
R906	1-216-077-00	RES,CHIP	15K	5%	1/10W		l .					
D007	1 216 112 00	DEC CIUD	47017	50/	1/1033		7	A-1298-954-A	A BOARD, COMP	,	XF21N9	90)
R907	1-216-113-00	RES,CHIP	470K	5%	1/10W				*****	*****		
R908	1-216-077-00	RES,CHIP	15K	5%	1/10W			4.055.204.01	HOLDED LED			
R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		1	4-055-304-01	HOLDER, LED			
R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		7	4-067-182-02	HOLDER, FBT	D CW (1)		
R911	1-216-067-00	RES,CHIP	5.6K	5%	1/10W			4-382-854-11	SCREW (M3X10),			
D012	1 216 041 00	DEC CHID	470	50/	1/10W			4-382-854-21	SCREW (M3X14),		2 IT 2	
R912	1-216-041-00	RES,CHIP	470	5%	1/10W			7-685-648-79	SCREW +BVTP	3X12 TYPE	211-3	
R913	1-216-049-91	RES,CHIP	1K	5%	1/10W							
R914	1-216-055-00	RES,CHIP	1.8K	5%	1/10W				CADACITOD:			
R915	1-216-061-00	RES,CHIP	3.3K	5%	1/10W				<capacitor></capacitor>			
R916	1-216-017-91	RES,CHIP	47	5%	1/10W		C004	1 162 001 11	CED AMIC CHID	220DE	100/	50V
D017	1 216 041 00	RES,CHIP	470	5%	1/10W		C004	1-163-001-11	CERAMIC CHIP	220PF 220PF	10% 10%	50V
R917 R918	1-216-041-00	,			1/10W		C005	1-163-001-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	25V
K918	1-216-041-00	RES,CHIP	470	5%	1/10 W		C006	1-104-004-11	ELECT	100MF	20%	25 V 16 V
							C007	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		<relay></relay>					C000	1-103-231-11	CLICAINIC CITII	10011	370	30 <b>v</b>
		(KLE/TI)					C010	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
RY601 /	1-755-266-11	RELAY, AC POWE	ΞR				C012	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
111001	. 1 700 200 11	TEEETI, TO TO WE					C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
							C014	1-126-967-11		47MF	20%	50V
		<switch></switch>					C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
		- 1								, <del></del>		
S502	1-572-707-11	SWITCH, LEVER					C016	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
S600 <u></u>	1-571-433-31	SWITCH, PUSH (A	AC POWER)				C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
S901	1-692-431-21	SWITCH, TACTIL	Æ				C019	1-104-665-11	ELECT	100MF	20%	25V
S902	1-692-431-21	SWITCH, TACTIL	Æ				C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
S903	1-692-431-21	SWITCH, TACTIL	Æ				C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
S904	1-692-431-21	SWITCH, TACTIL					C024	1-163-227-11	CERAMIC CHIP	10PF		50V
S905	1-692-431-21	SWITCH, TACTIL					C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
S906	1-692-431-21	SWITCH, TACTIL					C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
S907	1-692-431-21	SWITCH, TACTIL	Æ				C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
							C030	1-126-965-11	ELECT	22MF	20%	50V
		ZD ANGEODA CO					CO21	1 164 004 11	CED AND COME	0.1345	100/	251
		<transformer< td=""><td>(&gt;</td><td></td><td></td><td></td><td>C031</td><td>1-164-004-11</td><td>CERAMIC CHIP</td><td>0.1MF</td><td>10%</td><td>25V</td></transformer<>	(>				C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
TEO1	1 427 105 11	TD A MODORA CO	HODIZON	41 DD"	VE.		C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
T501	1-437-195-11	TRANSFORMER,				,	C034	1-163-031-11	CERAMIC CHIP	0.01MF	E0/	50V
T503 △	1-453-293-11	TRANSFORMER	ASSY, FLYB	ACK (N	A-1/48/		C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
TC01	1 404 600 11	M3A4)	I INIC CIT CO	D			C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
T601	1-424-682-11	TRANSFORMER,			`		C042	1 162 251 11	CED AMIC CUID	100DF	50/	501/
	1-433-512-31	TRANSFORMER,					C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
T604 △	1-431-852-11	TRANSFORMER,	CONVERTE	r (SKI	)		C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
							1					

<b>\( \)</b>	~ / / / / _ /	1430)									
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C244	1-164-700-11	CERAMIC CHIP	0.68MF		16V
C048	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C245	1-164-346-11	CERAMIC CHIP	1MF		16V
C050	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
						C246	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C051	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C247	1-164-346-11	CERAMIC CHIP	1MF		16V
C053	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C248	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V
C055	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C249	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C101	1-126-964-11	ELECT	10MF	20%	50V	C250	1-216-295-91	SHORT	0		
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	G2.54	1 1 52 017 00	arr i i i a arri	0.00453.55	100/	
C104	1 126 022 11	FLECT	1001/15	200/	1617	C251	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C104	1-126-933-11	ELECT	100MF	20%	16V	C252	1-164-346-11	CERAMIC CHIP	1MF	100/	16V
C107 C108	1-163-005-11 1-126-933-11	CERAMIC CHIP ELECT	470PF 100MF	10% 20%	50V 16V	C253 C254	1-163-037-11 1-126-965-11	CERAMIC CHIP ELECT	0.022MF 22MF	10% 20%	50V 50V
C108	1-120-933-11	CERAMIC CHIP	470PF	10%	50V	C254 C255	1-120-903-11	CERAMIC CHIP	0.022MF	10%	50V 50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C233	1-103-037-11	CERAINIC CIII	U.U22IVII	1070	30 V
CIIO	1-103-003-11	CLICAIVIIC CITII	47011	1070	30 <b>v</b>	C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C259	1-126-933-11	ELECT	100MF	20%	16V
C112	1-126-933-11	ELECT	100MF	20%	16V	C264	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C113	1-126-967-11	ELECT	47MF	20%	50V	C265	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C114	1-126-967-11	ELECT	47MF	20%	50V	C301	1-126-935-11	ELECT	470MF	20%	16V
C202	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V						
						C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C303	1-126-964-11	ELECT	10MF	20%	50V
C204	1-136-164-00	FILM	0.082MF	5%	50V	C304	1-126-967-11	ELECT	47MF	20%	50V
C205	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C206	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C207	1-136-164-00	FILM	0.082MF	5%	50V	C207	1 162 222 11	CED AMIC CHID	10DE	£0/	50V
C208	1-126-964-11	ELECT	10MF	20%	50V	C307 C308	1-163-233-11 1-163-259-91	CERAMIC CHIP CERAMIC CHIP	18PF 220PF	5% 5%	50V 50V
C208	1-126-964-11	ELECT	10MF	20%	50V 50V	C308	1-103-239-91	ELECT	0.22MF	20%	50 V
C210	1-126-933-11	ELECT	100MF	20%	16V	C310	1-126-963-11	ELECT	4.7MF	20%	50V
C211	1-126-941-11	ELECT	470MF	20%	25V	C311	1-126-964-11	ELECT	10MF	20%	50V
C212	1-126-933-11	ELECT	100MF	20%	16V	CSTT	1 120 701 11	LLLC I	101111	2070	301
	/					C312	1-164-346-11	CERAMIC CHIP	1MF		16V
C213	1-126-933-11	ELECT	100MF	20%	16V	C313	1-164-346-11	CERAMIC CHIP	1MF		16V
C214	1-126-942-61	ELECT	1000MF	20%	25V	C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C215	1-126-942-61	ELECT	1000MF	20%	25V	C316	1-126-967-11	ELECT	47MF	20%	50V
C216	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C217	1-126-964-11	ELECT	10MF	20%	50V						
						C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C218	1-136-167-00	FILM	0.15MF	5%	50V	C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C219	1-136-167-00	FILM	0.15MF	5%	50V	C320	1-163-031-11	CERAMIC CHIP	0.01MF	100/	50V
C220	1-126-942-61	ELECT	1000MF	20%	25V	C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C221	1-126-964-11		10MF	20% 20%	50V	C323	1-126-965-11	ELECT	22MF	20%	50V
C223	1-126-965-11	ELECT	22MF	20%	50V	C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C224	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C324 C325	1-103-017-00	ELECT	0.0047MF 1MF	20%	50V 50V
C225	1-103-133-00	CERAMIC CHIP	1MF	10%	10V	C327	1-126-965-11	ELECT	22MF	20%	50V
C226	1-109-982-11	CERAMIC CHIP	1MF	10%	10V 10V	C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C227	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C329	1-126-965-11	ELECT	22MF	20%	50V
C228	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V						
						C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C229	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	C331	1-247-807-31	CARBON	100	5%	1/4W
C230	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	C332	1-126-963-11	ELECT	4.7MF	20%	50V
C231	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V	C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C232	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
gas t	1 164 004 1:	CED LLCC CV	0.13.55	1001	2511	C337	1-126-961-11	ELECT	2.2MF	20%	50V
C234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C238 C240	1-164-505-11 1-164-505-11	CERAMIC CHIP CERAMIC CHIP	2.2MF 2.2MF		16V 16V	C401	1-164-346-11	CERAMIC CHIP	1MF		16V
C240	1-104-303-11	CERAIVIIC CHIP	∠.∠I <b>VII</b> `		104	C402	1-164-346-11	CERAMIC CHIP	1MF		16V
C241	1-164-346-11	CERAMIC CHIP	1MF		16V	C402 C403	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C241	1-164-505-11	CERAMIC CHIP	2.2MF		16V 16V	C403	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C243	1-216-295-91	SHORT	0			C405	1-126-935-11	ELECT	470MF	20%	16V
		-	•			C406	1-164-346-11	CERAMIC CHIP	1MF		16V
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The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

RM-952

RM-952

RM-915

RM-952

REF. NO	D. PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C407	1-164-346-11	CERAMIC CHIP	1MF		16V	C605 ₫	1-127-942-51	CERAMIC	330PF	10%	250V
C408	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		1-127-942-51	CERAMIC	330PF	10%	250V
C409	1-126-963-11	ELECT	4.7MF	20%	50V	C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C415	1-163-133-00	CERAMIC CHIP	470PF	5%	50V						
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V	C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V
						C609	1-126-968-11	ELECT	100MF	20%	50V
C506	1-107-638-11	ELECT	33MF	20%	160V	C610	1-126-964-11	ELECT	10MF	20%	50V
C507	1-161-830-00	CERAMIC	0.0047MF		500V	C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C510	1-102-112-00	CERAMIC	330PF	10%	50V	C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C512	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V						
C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C613	1-117-942-11	ELECT(BLOCK)	560MF	20%	250V
						C614	1-126-964-11	ELECT	10MF	20%	50V
C514	1-106-383-00	MYLAR	0.047MF	10%	200V	C616	1-130-202-00	FILM	0.022MF	10%	400V
C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	C617	1-107-792-11	CERAMIC	100PF	5%	1KV
C518	1-104-665-11	ELECT	100MF	20%	10V	C618	1-125-893-11	FILM	680PF	3%	1.5KV
C519	1-102-212-00	CERAMIC	820PF	10%	500V						
C521	1-126-934-11	ELECT	220MF	20%	16V	C619	1-119-886-51	CERAMIC	470PF	10%	250V
						C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C522	1-126-933-11	ELECT	100MF	20%	16V	C621	1-102-114-00	CERAMIC	470PF	10%	50V
C523	1-102-002-00	CERAMIC	680PF	10%	500V	C622	1-102-074-00	CERAMIC	0.001MF	10%	50V
C524	1-126-967-11	ELECT	47MF	20%	50V	C623	1-104-665-11	ELECT	100MF	20%	25V
C526	1-130-495-00	MYLAR	0.1MF	5%	50V	0.01	1 104 221 11	CED LA MC	0.00223.45	1.00/	17777
C527	1-102-820-00	CERAMIC	330PF	5%	50V	C624	1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C520	1 160 104 11	CEDANIC	470DE	1.00/	OKA	C627	1-102-002-00	CERAMIC	680PF	10%	500V
C528	1-162-134-11	CERAMIC	470PF	10%	2KV	C628	1-126-942-61	ELECT	1000MF	20%	25V
C530	1-137-372-11	FILM ELECT	0.022MF	5%	50V	C629	1-126-964-11	ELECT	10MF	20%	50V
C531	1-126-961-11		2.2MF	20%	50V 25V	C630	1-123-024-21	ELECT	33MF		160V
C532 C533	1-126-941-11 1-126-941-11	ELECT ELECT	470MF 470MF	20% 20%	25 V 25 V	C633	1-104-999-11	MYLAR	0.1MF	10%	200V
CSSS	1-120-941-11	ELECT	4/0MI	2070	23 <b>v</b>	C634	1-104-999-11	ELECT	100MF	20%	200 V 16V
C536	1-136-165-00	FILM	0.1MF	5%	50V	C635	1-120-955-11	ELECT	100MF	20%	10V 10V
C537	1-126-969-11	ELECT	220MF	20%	50V	C636	1-104-003-11	CERAMIC CHIP	0.047MF	10%	50V
C538	1-136-076-00	FILM	0.0085MF	3%	2KV	C639	1-164-700-11	CERAMIC CHIP	0.047MF	10%	25V
C539	1-129-746-91	FILM	0.0039MF	5%	400V	C039	1-104-004-11	CERAMIC CITI	U.IIVII	1070	23 <b>v</b>
C540	1-136-171-00	FILM	0.33MF	5%	50V	C640	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C340	1 130 171 00	I ILW	0.331411	370	301	C641	1-102-002-00	CERAMIC	680PF	10%	500V
C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C642	1-126-943-11	ELECT	2200MF	20%	25V
C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C643	1-104-665-11	ELECT	100MF	20%	10V
C550	1-106-220-00	MYLAR	0.1MF	10%	100V	C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C551	1-126-960-11	ELECT	1MF	20%	50V						
C552	1-162-116-00	CERAMIC	680PF	10%	2KV	C645	1-137-605-11	FILM	0.01MF	10%	250V
						C646	1-107-679-91	ELECT	10MF	20%	450V
C553	1-162-116-00	CERAMIC	680PF	10%	2KV	C647	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C554	1-137-417-11	MYLAR	0.0047MF	10%	200V	C649	1-126-940-11	ELECT	330MF	20%	25V
C556	1-126-941-11	ELECT	470MF	20%	25V	C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C557	1-126-941-11	ELECT	470MF	20%	25V						
C558	1-123-024-21	ELECT	33MF		160V	C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
						C652	1-126-965-11	ELECT	22MF	20%	50V
C560	1-102-228-00	CERAMIC	470PF	10%	500V	C653	1-104-664-11	ELECT	47MF	20%	25V
C561	1-136-557-11	FILM	0.0033MF	5%	630V	C657	1-101-821-00	CERAMIC	0.0022MF		500V
C562	1-102-228-00	CERAMIC	470PF	10%	500V	C658	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V						
C565	1-107-655-11	ELECT	47MF	20%	250V	C901	1-136-153-00	FILM	0.01MF	5%	50V
						C902	1-136-153-00	FILM	0.01MF	5%	50V
C566	1-102-244-00	CERAMIC	220PF	10%	500V	C905	1-126-963-11	ELECT	4.7MF	20%	50V
C567	1-115-521-11	FILM	0.82MF	5%	250V	C906	1-164-346-11	CERAMIC CHIP	1MF		16V
C568	1-102-228-00	CERAMIC	470PF	10%	500V	C907	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C570	1-115-520-11	FILM	0.68MF	5%	250V	G000	1 162 122 00	CED LANG CHID	470DE	50/	5017
C573	1-106-379-12	MYLAR	0.033MF	10%	200V	C908	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
0574	1 107 (2) 11	ELECT	10MF	200/	1607	C909	1-164-346-11	CERAMIC CHIP	1MF	200/	16V
C574	1-107-636-11	ELECT	10MF	20%	160V	C910	1-126-967-11	ELECT	47MF	20%	50V
C576	1-130-495-00	MYLAR MYLAR	0.1MF	5% 10%	50V	C911	1-126-967-11	ELECT CERAMIC CHIR	47MF	20%	50V
C577 C582	1-106-395-00	MYLAR	0.15MF 0.1MF	10%	200V 25V	C912	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	1-164-004-11	CERAMIC CHIP		10%	25 V 250 V	C012	1 126 022 11	ELECT	100ME	200/	16V
C000	△ 1-104-705-51	FILM	0.1MF	20%	230 V	C913 C914	1-126-933-11 1-163-133-00	CERAMIC CHIP	100MF 470PF	20% 5%	50V
C603	1-104-664-11	ELECT	47MF	20%	25V	C914	1-103-133-00	CENAIVIIC CHIP	+/UFI	J70	30 Y
C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V						
2001				- 0 / 0		1					

		-						
REF. NO. PART	NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
		<connector></connector>		D521	8-719-302-43	DIODE EL1Z		
				D522	8-719-302-43	DIODE EL1Z		
CN104 1-695	-915-11	TAB (CONTACT)		D523	8-719-302-43	DIODE EL1Z		
CN202 * 1-785		PIN, CONNECTOR 4P		D527	8-719-908-03	DIODE GP08D		
CN203 * 1-564		PLUG, CONNECTOR 3P		D528	8-719-908-03	DIODE GP08D		
				D326	0-719-900-03	DIODE OF 00D		
CN204 * 1-564		PLUG, CONNECTOR 3P		D521	0.710.000.61	DIODE 100255TE	17	
CN305 * 1-564	-309-11	PLUG, CONNECTOR 6P		D531	8-719-988-61	DIODE 1SS355TE-		
CN1006 # 1 564	510.11	DI LIG CONNECTOR TR		D532	8-719-988-61	DIODE 1SS355TE-	1 /	
CN306 * 1-564		PLUG, CONNECTOR 7P		D600	8-719-911-19	DIODE 1SS119-25		
	3-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D602	8-719-911-19	DIODE 1SS119-25		
	-844-01	PIN, LEAD, COATING		D603	8-719-150-92	DIODE RD33EB3T		
CN507 * 1-564		PLUG, CONNECTOR 4P						
CN601 * 1-580	-843-11	PIN, CONNECTOR (POWER)		D604	8-719-028-72	DIODE RGP02-17E	EL-6433	
				D605	8-719-510-53	DIODE D4SB60L		
CN602 * 1-508	3-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D606	8-719-108-18	THYRISTOR 5P6M	Į.	
CN604 * 1-573	-963-11	PIN, CONNECTOR (PC BOARD) 3P		D607	8-719-404-50	DIODE MA111-TX		
CN609 * 1-508	3-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D608	8-719-110-53	DIODE RD20ESB2		
CN901 * 1-564	-507-11	PLUG, CONNECTOR 4P						
				D609	8-719-311-31	DIODE RU-1P		
				D610	8-719-043-76	DIODE AK04V0		
<con< td=""><td>MPOSITIO</td><td>ON CIRCUIT BLOCK&gt;</td><td></td><td>D611</td><td>8-719-046-74</td><td>DIODE AU-01Z-V1</td><td></td><td></td></con<>	MPOSITIO	ON CIRCUIT BLOCK>		D611	8-719-046-74	DIODE AU-01Z-V1		
				D613	8-719-046-74	DIODE AU-01Z-V1		
CP301 1-467-	-554-21	FILTER BLOCK, COMB		D614	8-719-046-74	DIODE AU-01Z-V1		
		,				' •		
				D618	8-719-067-18	DIODE RN4Z		
		<diode></diode>		D620	8-719-110-72	DIODE RD30ESB2		
		(DIODE)		D622	8-719-071-39	DIODE FMU-G26S		
D001 8-719	-988-61	DIODE 1SS355TE-17		D623	8-719-978-65	DIODE DTZ-TT11-		
	-988-61	DIODE 1SS355TE-17		D624	8-719-404-50	DIODE MA111-TX		
	-988-61	DIODE 1SS355TE-17		D024	0 717 404 50	DIODE MIXITI IA		
	-914-42	DIODE DA204K		D625	8-719-977-28	DIODE DTZ10B		
							75	
D300 1-216	5-295-91	SHORT 0		D627	8-719-073-84	DIODE 31DQ06-FC	.5	
D201 0.710	000 61	DIODE 100255TE 17		D628	8-719-911-19	DIODE ISS119-25		
	-988-61	DIODE 1SS355TE-17		D631	8-719-068-00	DIODE ERC04-06S		
	-988-61	DIODE 1SS355TE-17		D632	8-719-068-00	DIODE ERC04-06S	E	
	-988-61	DIODE 1SS355TE-17						
	-988-61	DIODE 1SS355TE-17		D633	8-719-948-45	DIODE ERA22-08		
D309 8-719	-069-54	DIODE UDZS-TE17-5		D634	8-719-404-50	DIODE MA111-TX		
				D635	8-719-404-50	DIODE MA111-TX		
D311 8-719	-988-61	DIODE 1SS355TE-17		D636	8-719-510-02	DIODE D1NS4		
D312 8-719	-988-61	DIODE 1SS355TE-17		D637	8-719-109-96	DIODE RD6.8ESB1		
D313 8-719	-988-61	DIODE 1SS355TE-17						
D314 8-719	-988-61	DIODE 1SS355TE-17		D638	8-719-510-48	DIODE D1N20R		
D315 8-719	-988-61	DIODE 1SS355TE-17		D901	8-719-069-60	DIODE UDZS-TE1	7-9.1B	
				D902	8-719-069-60	DIODE UDZS-TE1	7-9.1B	
D316 8-719	-069-57	DIODE UDZS-TE17-6.8B		D903	8-719-069-60	DIODE UDZS-TE1	7-9.1B	
D319 8-719	-069-60	DIODE UDZS-TE17-9.1B		D904	8-719-069-60	DIODE UDZS-TE1	7-9.1B	
	-069-60	DIODE UDZS-TE17-9.1B						
	-069-60	DIODE UDZS-TE17-9.1B		D905	8-719-069-60	DIODE UDZS-TE1	7-9.1B	
	-069-60	DIODE UDZS-TE17-9.1B		D906	8-719-045-19	DIODE SPB-26MV		
D404 8-719	-069-60	DIODE UDZS-TE17-9.1B						
	-069-60	DIODE UDZS-TE17-9.1B				<connector></connector>		
	-069-60	DIODE UDZS-TE17-9.1B				COLUMN		
	-302-43	DIODE EL1Z		DY1 *	1-580-798-11	CONNECTOR PIN	(DV) 6P	
	-988-61	DIODE 1SS355TE-17		DII	1-360-776-11	CONNECTORTIN	(D1) 01	
D303 6-713	-700-01	DIODE 1333331E-17						
D506 9 710	011 10	DIODE 188110 25				EEDDITE DE AD		
	-911-19	DIODE 188319-25				<ferrite bead=""></ferrite>	•	
	1-988-61	DIODE 188355TE-17		ED 102	1 410 207 21	CEDDITE	1 111111	
	-988-61	DIODE 1SS355TE-17	1/10337	FB103	1-410-397-21	FERRITE	1.1UH	
	5-073-00	RES,CHIP 10K 5%	1/10W	FB501	1-410-397-21	FERRITE	1.1UH	
D510 8-719	-988-61	DIODE 1SS355TE-17		FB502	1-410-397-21	FERRITE	1.1UH	
5.514		DVODE 199255777 :-		FB600	1-410-397-21	FERRITE	1.1UH	
	-988-61	DIODE 1SS355TE-17		FB601	1-410-397-21	FERRITE	1.1UH	
	-988-61	DIODE 1SS355TE-17						
	-908-03	DIODE GP08D		FB602	1-410-397-21	FERRITE	1.1UH	
	-945-80	DIODE ERC06-15S		FB603	1-410-397-21	FERRITE	1.1UH	
D518 8-719	-900-26	DIODE ERD29-08J		FB604	1-410-397-21	FERRITE	1.1UH	
				•				

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
FB607	1-410-397-21	FERRITE	1.1UH		JR500	1-216-295-91	SHORT	0	
FB608	1-412-911-31	FERRITE	0UH		JR501	1-216-295-91	SHORT	0	
					JR600	1-216-295-91	SHORT	0	
FB611	1-410-397-21	FERRITE	1.1UH						
FB612	1-410-397-21	FERRITE	1.1UH						
FB613	1-410-397-21	FERRITE	1.1UH				<coil></coil>		
FB615	1-410-397-21	FERRITE	1.1UH		1.002	1 414 056 11	INDLICTOR	101111	
					L002	1-414-856-11	INDUCTOR	10UH 3.3UH	
		<ic></ic>			L003 L005	1-414-180-11 1-414-233-22	INDUCTOR INDUCTOR CHIP		
		(IC)			L101	1-414-856-11	INDUCTOR	10UH	
IC001	8-752-905-24	IC CXP86449-6185	S		L102	1-414-856-11	INDUCTOR	10UH	
IC002	8-759-371-21	IC MM1319AFBE							
IC003	8-759-370-34	IC ST24C08FB6			L103	1-414-856-11	INDUCTOR	10UH	
IC201	8-759-336-30	IC TA8223K			L104	1-414-856-11	INDUCTOR	10UH	
IC203	8-759-553-40	IC TDA7429S			L105	1-414-856-11	INDUCTOR	10UH	
TG204	. ===	TG GTT   2120G			L204	1-414-856-11	INDUCTOR	10UH	
IC301	8-752-088-39	IC CXA2130S IC NJM2903M			L301	1-414-189-31	INDUCTOR	100UH	
IC502 IC503	8-759-700-07 8-759-980-58	IC NJM2903M IC TDA8172			L302	1-414-185-41	INDUCTOR	22UH	
IC601	8-749-013-75	IC STR-F6654			L502	1-412-525-31	INDUCTOR	10UH	
IC602	8-749-920-61	IC SE-135N			L502	1-422-613-11	COIL, AIR CORE	10011	
					L503	1-412-525-31	INDUCTOR	10UH	
IC603	8-759-701-59	IC NJM78M09FA			L504	1-412-525-31	INDUCTOR	10UH	
IC604	8-759-231-53	IC TA7805S							
IC901	8-742-014-11	HYB IC SBX1981-	51		L505	1-412-525-31	INDUCTOR	10UH	
					L506	1-412-525-31	INDUCTOR	10UH	
		<jack></jack>			L507	1-459-111-00	INDUCTOR	10MMH	
		<jack></jack>			L508 L509	1-412-525-31 1-459-390-00	INDUCTOR INDUCTOR	10UH 390UH	
J401	1-779-850-11	JACK BLOCK, PIN	I 6P		L30)	1-437-370-00	INDUCTOR	370011	
J901	1-770-786-11	JACK			L510	1-416-972-11	COIL, HORIZONT	AL LINEARITY	
J902	1-770-329-11	JACK, PIN 3P			L512	1-412-549-31	INDUCTOR	1MMH	
					L513	1-412-549-31	INDUCTOR	1MMH	
					L515	1-459-104-00	COIL, WITH COR		
		<chip conduct<="" td=""><td>OR&gt;</td><td></td><td>L518</td><td>1-408-611-31</td><td>INDUCTOR</td><td>47UH</td><td></td></chip>	OR>		L518	1-408-611-31	INDUCTOR	47UH	
JR002	1-216-295-91	SHORT	0		L601	1-412-527-11	INDUCTOR	15UH	
JR002 JR003	1-216-295-91	SHORT	0		L901	1-412-327-11	INDUCTOR	10UH	
JR004	1-216-295-91	SHORT	0		L902	1-408-603-31	INDUCTOR	10UH	
JR005	1-216-295-91	SHORT	0		L905	1-414-856-11	INDUCTOR	10UH	
JR006	1-216-295-91	SHORT	0						
JR007	1-216-295-91	SHORT	0				<photo couple<="" td=""><td>IR&gt;</td><td></td></photo>	IR>	
	1-216-295-91		0		DI1600 A	9 740 024 25	DUOTO COUDI ED	ON2171 D	
JR009 JR010	1-216-295-91 1-216-295-91	SHORT SHORT	0		PH000 213	0-749-924-33	PHOTO COUPLER	ON51/1-K	
JR010 JR011	1-216-295-91	SHORT	0						
							<ic link=""></ic>		
JR012	1-216-295-91	SHORT	0						
JR013	1-216-295-91	SHORT	0		PS200	1-532-675-21	LINK, IC 1.5A/150	V	
JR014	1-216-295-91	SHORT	0						
JR015 JR016	1-216-295-91 1-216-295-91	SHORT SHORT	0				<transistor></transistor>		
31010	1-210-275-71	SHORI	O				\TKANSISTOR>		
JR018	1-216-295-91	SHORT	0		Q002	8-729-230-49	TRANSISTOR 2SC	C2712-YG	
JR019	1-216-295-91	SHORT	0		Q003	8-729-424-08	TRANSISTOR UN		
JR107	1-216-295-91	SHORT	0		Q004	8-729-421-22	TRANSISTOR UN		
JR202	1-216-295-91	SHORT	0		Q101	8-729-230-49	TRANSISTOR 2SC		
JR301	1-216-295-91	SHORT	0		Q201	8-729-424-67	TRANSISTOR UN	2216	
JR303	1-216-295-91	SHORT	0		Q202	8-729-424-67	TRANSISTOR UN	2216	
JR303 JR401	1-216-295-91	SHORT	0		Q202 Q203	8-729-424-67	TRANSISTOR UN		
JR403	1-216-295-91	SHORT	0		Q203 Q204	8-729-216-22	TRANSISTOR 2SA		
JR404	1-216-295-91	SHORT	0		Q205	8-729-421-19	TRANSISTOR UN		
JR405	1-216-295-91	SHORT	0		Q206	8-729-421-19	TRANSISTOR UN	2213	
					0205	0.500 10: ::	TID A MOTOR CO.	2212	
					Q207	8-729-421-19	TRANSISTOR UN		
					Q301	8-729-216-22	TRANSISTOR 2SA	11102-U	

<b>\( \)</b>	\\ \\ _ \	1430)									
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q302	8-729-230-49	TRANSISTOR 2SO	22712-VG			R028	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q302 Q303	8-729-216-22	TRANSISTOR 2SA				R029	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q305 Q305	8-729-216-22	TRANSISTOR 2SA				R030	1-216-025-91	RES,CHIP	100	5%	1/10W
Q303	8-729-210-22	TRANSISTOR 2SF	A1102-G			R030	1-216-023-91	RES,CHIP	100 1K	5%	1/10W 1/10W
0206	8-729-216-22	TRANSISTOR 2SA	1162 C			R034	1-216-049-91	RES,CHIP	1 K	5% 5%	1/10W 1/10W
Q306 Q307	8-729-210-22	TRANSISTOR 2SA				K034	1-210-049-91	кез,спіг	11	3%	1/10 W
Q307 Q308	8-729-230-49	TRANSISTOR 2SA				D025	1 216 025 01	RES,CHIP	100	50/	1/10W
						R035	1-216-025-91	,		5%	
Q312	8-729-216-22	TRANSISTOR 2SA				R036	1-216-025-91	RES,CHIP	100	5%	1/10W
Q313	8-729-230-49	TRANSISTOR 2SO	22/12-YG			R037	1-216-083-00	RES,CHIP	27K	5%	1/10W
0215	0.720.421.10	TD ANGIOTOD IIN	2012			R040	1-216-025-91	RES,CHIP	100	5%	1/10W
Q315	8-729-421-19	TRANSISTOR UN				R041	1-216-025-91	RES,CHIP	100	5%	1/10W
Q401	8-729-424-67	TRANSISTOR UN				D0.42	4.04.6.00.04	arro.p.m	^		
Q402	8-729-424-67	TRANSISTOR UN				R042	1-216-295-91	SHORT	0		4 /4 0777
Q403	8-729-216-22	TRANSISTOR 2SA				R043	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q404	8-729-216-22	TRANSISTOR 2SA	A1162-G			R044	1-216-025-91	RES,CHIP	100	5%	1/10W
						R045	1-414-233-22	INDUCTOR CHIP			
Q503	8-729-230-49	TRANSISTOR 2SO				R046	1-216-049-91	RES,CHIP	1 <b>K</b>	5%	1/10W
Q505	8-729-931-45	TRANSISTOR IRF									
Q506	8-729-140-96	TRANSISTOR 2SI				R047	1-414-233-22	INDUCTOR CHIP			
Q507	8-729-216-22	TRANSISTOR 2SA	A1162-G			R048	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q509	8-729-230-49	TRANSISTOR 2SO	C2712-YG			R050	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R053	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q511	8-729-048-07	TRANSISTOR 2SI	D2578-CA			R055	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q600	8-729-119-78	TRANSISTOR 2SO	C2785-HFE								
Q601	8-729-023-22	TRANSISTOR 2SI	D2114K			R056	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q602	8-729-230-49	TRANSISTOR 2SO	C2712-YG			R061	1-216-033-00	RES,CHIP	220	5%	1/10W
Q603	8-729-424-08	TRANSISTOR UN	2111			R062	1-216-041-00	RES,CHIP	470	5%	1/10W
						R063	1-216-037-00	RES,CHIP	330	5%	1/10W
Q604	8-729-200-17	TRANSISTOR 2SA	A1091-O			R064	1-216-037-00	RES,CHIP	330	5%	1/10W
Q605	8-729-044-30	TRANSISTOR 2SI	C2845-LB102	!							
Q606	8-729-230-49	TRANSISTOR 2SO	C2712-YG			R065	1-216-037-00	RES,CHIP	330	5%	1/10W
Q607	8-729-922-37	TRANSISTOR 2SI		I		R066	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q608	8-729-230-49	TRANSISTOR 2SO				R103	1-216-025-91	RES,CHIP	100	5%	1/10W
(000						R104	1-216-025-91	RES,CHIP	100	5%	1/10W
Q901	8-729-421-19	TRANSISTOR UN	2213			R105	1-216-295-91	SHORT	0	270	1,10
Q902	8-729-421-19	TRANSISTOR UN				1000	1 210 2/3 /1	BIIORI	o .		
Q702	0 727 121 17	THE HADISTON CIT	2213			R106	1-216-049-91	RES,CHIP	1K	5%	1/10W
						R109	1-216-041-00	RES,CHIP	470	5%	1/10W
		<resistor></resistor>				R111	1-216-025-91	RES,CHIP	100	5%	1/10W
		(REDISTOR)				R112	1-216-025-91	RES,CHIP	100	5%	1/10W
R001	1-414-233-22	INDUCTOR CHIP	OUH			R113	1-216-047-91	RES,CHIP	820	5%	1/10W
R002	1-216-025-91	RES,CHIP	100	5%	1/10W	KIIS	1-210-047-71	KL5,CIII	020	370	1/10**
R002	1-216-023-91	RES,CHIP	10K	5%	1/10W	R114	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R004	1-216-025-91		100	5%	1/10W	R115	1-216-065-91		4.7K	5%	1/10W
R005	1-216-025-91	RES,CHIP	100	5%	1/10W	R202	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R003	1-210-025-71	KL5,CIII	100	370	1/10**	R202	1-216-053-00	RES,CHIP	2.2K	5%	1/10W
R006	1-216-689-11	RES,CHIP	39K	5%	1/10W	R203	1-216-057-00	RES,CHIP	6.8K	5%	1/10W 1/10W
R007	1-216-033-00	RES,CHIP	220	5%	1/10W	K204	1-210-009-00	KES,CIII	0.01	370	1/ 10 VV
R007 R008	1-216-055-00	RES,CHIP	4.7K	5%	1/10W 1/10W	R205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R009	1-216-065-91	RES,CHIP	4.7K 4.7K	5%	1/10W	R205	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R010	1-216-065-91	RES,CHIP	4.7K 4.7K	5% 5%	1/10W 1/10W	R200	1-216-057-00	RES,CHIP	2.2K 1.5K	5%	1/10W 1/10W
KUIU	1-210-003-91	кез,спіг	4./K	370	1/10 vv	R207	1-216-053-00	RES,CHIP	6.8K		1/10W 1/10W
DO11	1 216 065 01	DEC CHID	4 7V	50/	1/1037			*		5%	
R011	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R012	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	D210	1 216 020 00	DEC CHID	150	50/	1/10337
R013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R210	1-216-029-00	RES,CHIP	150	5%	1/10W
R014	1-216-025-91	RES,CHIP	100	5%	1/10W	R212	1-216-029-00	RES,CHIP	150	5%	1/10W
R015	1-216-025-91	RES,CHIP	100	5%	1/10W	R213	1-216-073-00	RES,CHIP	10K	5%	1/10W
DOLC	1.016.007.01	DEC CUID	100	F0/	1/10337	R214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R016	1-216-025-91	RES,CHIP	100	5%	1/10W	R215	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R017	1-216-049-91	RES,CHIP	1K	5%	1/10W	D24 -	1.01 : 07 - 01	DEG CVV	0.777	<b>-</b>	1/10***
R018	1-216-033-00	RES,CHIP	220	5%	1/10W	R216	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R019	1-216-073-00	RES,CHIP	10K	5%	1/10W	R217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R021	1-216-073-00	RES,CHIP	10K	5%	1/10W	R218	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
				_		R219	1-216-025-91	RES,CHIP	100	5%	1/10W
R022	1-216-033-00	RES,CHIP	220	5%	1/10W	R220	1-216-025-91	RES,CHIP	100	5%	1/10W
R024	1-216-057-00	RES,CHIP	2.2K	5%	1/10W						
R025	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R221	1-216-295-91	SHORT	0		
R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R222	1-216-295-91	SHORT	0		
R027	1-216-073-00	RES,CHIP	10K	5%	1/10W	R225	1-216-033-00	RES,CHIP	220	5%	1/10W

RM-952

RM-952

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMA	RK
R226	1-216-033-00	RES,CHIP	220	5%	1/10W	R365	1-216-033-00	RES,CHIP	220	5%	1/10W	
R227	1-216-033-00	RES,CHIP	220	5%	1/10W	R366	1-216-073-00	RES,CHIP	10K	5%	1/10W	
		,				R367	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R228	1-249-389-11	CARBON	4.7	5%	1/4W	R370	1-216-033-00	RES,CHIP	220	5%	1/10W	
R229	1-216-073-00	RES,CHIP	10K	5%	1/10W	R376	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W			,.				
R231	1-216-295-91	SHORT	0			R377	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R234	1-249-389-11	CARBON	4.7	5%	1/4W	R378	1-216-031-00	RES,CHIP	180	5%	1/10W	
1120 .	12., 50, 11	C. II.D O.		270	2,	R401	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R235	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R402	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R236	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R403	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R237	1-216-308-00	RES,CHIP	4.7	5%	1/10W	1403	1 210 073 00	KL5,CIII	1010	370	1/1011	
R301	1-216-073-00	RES,CHIP	10K	5%	1/10W	R404	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R302	1-216-295-91	SHORT	0	370	1/10 VV	R405	1-216-073-00	RES,CHIP	10K	5%	1/10W	
K302	1-210-293-91	SHOKI	U			R405	1-216-043-91	*	10K	5%	1/10W	
D202	1 216 040 01	RES,CHIP	1K	50/	1/10W	1		RES,CHIP	10 <b>K</b> 1 <b>K</b>			
R303 R304	1-216-049-91 1-216-073-00	RES,CHIP	10K	5%	1/10W 1/10W	R407 R408	1-216-049-91	RES,CHIP	1K 1K	5% 5%	1/10W 1/10W	
				5%		K408	1-216-049-91	RES,CHIP	110	5%	1/10 W	
R305	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	D 400	1 216 041 00	DEC CIUD	470	50/	1/10337	
R306	1-216-073-00	RES,CHIP	10K	5%	1/10W	R409	1-216-041-00	RES,CHIP	470	5%	1/10W	
R307	1-216-295-91	SHORT	0			R410	1-216-113-00	RES,CHIP	470K	5%	1/10W	
<b>D200</b>		DEG GIVE	100		4 /4 0777	R411	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R308	1-216-025-91	RES,CHIP	100	5%	1/10W	R412	1-216-041-00	RES,CHIP	470	5%	1/10W	
R309	1-216-025-91	RES,CHIP	100	5%	1/10W	R413	1-216-021-00	RES,CHIP	68	5%	1/10W	
R310	1-216-025-91	RES,CHIP	100	5%	1/10W							
R311	1-216-017-91	RES,CHIP	47	5%	1/10W	R414	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R312	1-216-041-00	RES,CHIP	470	5%	1/10W	R415	1-216-113-00	RES,CHIP	470K	5%	1/10W	
						R416	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R417	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R314	1-216-045-00	RES,CHIP	680	5%	1/10W	R418	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R316	1-216-053-00	RES,CHIP	1.5K	5%	1/10W							
R317	1-216-077-00	RES,CHIP	15K	5%	1/10W	R419	1-216-022-00	RES,CHIP	75	5%	1/10W	
R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R426	1-216-033-00	RES,CHIP	220	5%	1/10W	
						R505	1-216-099-00	RES,CHIP	120K	5%	1/10W	
R319	1-216-025-91	RES,CHIP	100	5%	1/10W	R506	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R507	1-249-389-11	CARBON	4.7	5%	1/4W	F
R321	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R322	1-216-033-00	RES,CHIP	220	5%	1/10W	R508	1-215-910-00	METAL OXIDE	68	5%	3W	F
R326	1-216-295-91	SHORT	0			R509	1-215-911-11	METAL OXIDE	100	5%	3W	F
						R510	1-215-885-00	METAL OXIDE	68	5%	2W	F
R331	1-216-295-91	SHORT	0			R511	1-215-911-11	METAL OXIDE	100	5%	3W	F
R332	1-216-033-00	RES,CHIP	220	5%	1/10W	R516	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R333	1-216-073-00	RES,CHIP	10K	5%	1/10W			,.				
R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W	R518	1-247-807-31	CARBON	100	5%	1/4W	
R335	1-216-045-00	RES,CHIP	680	5%	1/10W	R520	1-215-445-00	METAL	10K	1%	1/4W	
						R522	1-216-675-11	METAL CHIP	10K		1/10W	
R338	1-216-033-00	RES,CHIP	220	5%	1/10W	R523	1-249-411-11	CARBON	330	5%	1/4W	
R340	1-216-025-91	RES,CHIP	100	5%	1/10W	R525	1-216-699-11	METAL CHIP	100K		1/10W	
R345	1-216-081-00	RES,CHIP	22K	5%	1/10W					0.00	-,	
R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R526	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W	
R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R527	1-216-001-00	RES,CHIP	10	5%	1/10W	
10.7	1 210 001 00	nes,em	11211	570	1,10 ,,	R528	1-216-683-11	METAL CHIP	22K		1/10W	
R348	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R529	1-216-635-11	METAL CHIP	220		1/10W	
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W	R531	1-247-843-11	CARBON	3.3K	5%	1/4W	
R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	1031	1 217 013 11	CHILDOIN	3.31	570	1, 1, 1,	
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R533	1-249-417-11	CARBON	1K	5%	1/4W	
R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R534	1-216-361-00	METAL OXIDE	0.22	5%		F
1334	1-210-037-00	KL5,CIII	2.21	370	1/10 **	R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R356	1-216-057-00	RES,CHIP	2.2K 2.2K	5%	1/10W 1/10W	R537	1-216-683-11	METAL CHIP	22K		1/10W	
R357	1-216-037-00	RES,CHIP	2.2K 18K	5%	1/10W 1/10W	KJ57	1-210-063-11	METAL CHIP	22 <b>K</b>	0.50%	1/10 W	
						D540	1 216 065 01	DEC CHID	17V	50/	1/10W/	
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W	R540	1-216-065-91	RES,CHIP	4.7K	5% 5%	1/10W	
R359	1-216-033-00	RES,CHIP	220	5%	1/10W	R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
D260	1 217 022 00	DEC CIUD	220	50/	1/10337	R542	1-216-295-91	SHORT	0 5 eV	50/	1 /4337	E
R360	1-216-033-00	RES,CHIP	220	5%	1/10W	R543	1-249-426-11	CARBON	5.6K	5%	1/4W	
R361	1-216-073-00	RES,CHIP	10K	5%	1/10W	R545	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W	D546	1 016 077 00	DEC CHES	1577	501	1 /1 0333	
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W	R546	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R364	1-216-295-91	SHORT	0			R547	1-216-085-00	RES,CHIP	33K	5%	1/10W	
						R549	1-215-451-00	METAL	18K	1%	1/4W	

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The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMAR	K	REF. NO.	PART NO.	DESCRIPTION			REMA	.RK
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W		R631	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R551	1-249-421-11	CARBON	2.2K	5%	1/4W		R632	1-202-933-61	FUSIBLE	0.1	10%	1/2W	
1001	12., .21.11	or mad or v	2.211	5,0	2,			1-218-265-91	METAL	8.2M	5%	1W	
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R635	1-216-492-11	METAL OXIDE	82K	5%	3W	F
R553	1-215-457-00	METAL	33K	1%	1/4W		R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R554	1-215-457-00	METAL	33K	1%	1/4W								
R556	1-215-437-00	METAL	4.7K	1%	1/4W		R637	1-216-492-11	METAL OXIDE	82K	5%	3W	F
R558	1-249-421-11	CARBON	2.2K	5%	1/4W		R639	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
							R640	1-249-415-11	CARBON	680	5%	1/4W	
R559	1-249-429-11	CARBON	10K	5%	1/4W		R641	1-216-362-11	METAL OXIDE	0.27	5%	2W	F
R560	1-216-073-00	RES,CHIP	10 <b>K</b>	5%	1/10W		R642	1-249-419-11	CARBON	1.5K	5%	1/4W	
R562	1-249-401-11	CARBON	47	5%	1/4W								
R565	1-216-073-00	RES,CHIP	10K	5%	1/10W		R643	1-247-843-11	CARBON	3.3K	5%	1/4W	
R567	1-216-105-91	RES,CHIP	220K	5%	1/10W		R644	1-249-419-11	CARBON	1.5K	5%	1/4W	
							R646	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R568	1-249-383-11	CARBON	1.5	5%	1/4W F	7	R647	1-249-401-11	CARBON	47	5%	1/4W	
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W		R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R571	1-215-437-00	METAL	4.7K	1%	1/4W		D 640	1 240 447 44	GIRRON	4.77			
R573	1-216-089-91	RES,CHIP	47K	5%	1/10W	,	R649	1-249-417-11	CARBON	1K	5%	1/4W	
R577	1-215-913-11	METAL OXIDE	220	5%	3W I	.	R650	1-215-882-00	METAL OXIDE	22	5%	2W	F
D.570	1 216 260 00	METAL OVIDE	1	50/	2337 1	,	R652	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R578	1-216-369-00	METAL OXIDE	1001	5%	2W F	.	R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F
R579	1-216-097-91	RES,CHIP	100K	5%	1/10W		R656	1-249-417-11	CARBON	1K	5%	1/4W	
R580	1-216-699-11	METAL CHIP	100K		1/10W		D.657	1 060 107 11	CARRON	22017	50/	1 /0337	
R581	1-208-798-11 1-249-391-11	RES,CHIP CARBON	4.7K		1/10W	,	R657	1-260-127-11	CARBON	220K 1K	5%	1/2W 1/10W	
R585	1-249-391-11	CARDON	6.8	5%	1/4W F	7	R659 R660	1-216-049-91 1-216-073-00	RES,CHIP RES,CHIP	10K	5% 5%	1/10W 1/10W	
D500	1-215-888-00	METAL OVIDE	220	50/	2W F	.	R661	1-215-873-00	METAL OXIDE	4.7K		1/10W 1W	
R588 R589	1-215-888-00	METAL OXIDE METAL OXIDE	220	5% 5%	2W F		R680	1-215-875-00	RES,CHIP	4.7 <b>K</b> 4.7	5% 5%	1/10W	
R590	1-215-665-00	METAL OXIDE	68K	1%	2 W 1 1/4W	.	K000	1-210-306-00	кез,спіг	4.7	370	1/10 W	
R591	1-260-288-11	CARBON	0.47	5%	1/4 W 1/2W F	, I	R901	1-249-411-11	CARBON	330	5%	1/4W	
R593	1-260-288-11	CARBON	0.47	5%	1/2W F		R902	1-249-411-11	CARBON	330	5%	1/4W	
KJ7J	1-200-200-11	CARDON	0.47	370	1/2 VV 1	.	R903	1-216-022-00	RES,CHIP	75	5%	1/4 W	
R594	1-260-288-11	CARBON	0.47	5%	1/2W F	- I	R904	1-216-033-00	RES,CHIP	220	5%	1/10W	
R596	1-215-922-11	METAL OXIDE	6.8K	5%	3W I		R905	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R597	1-247-750-11	CARBON	680	5%	1/2W F		1005	1 210 115 00	пав,сти	17011	570	1/1011	
R598	1-249-438-11	CARBON	56K	5%	1/4W		R906	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R599	1-249-389-11	CARBON	4.7	5%	1/4W		R907	1-216-113-00	RES,CHIP	470K	5%	1/10W	
							R908	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R600	1-249-438-11	CARBON	56K	5%	1/4W		R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R601	1-249-418-11	CARBON	1.2K	5%	1/4W F	7	R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R602	1-249-389-11	CARBON	4.7	5%	1/4W F	7							
R603	1-215-485-00	METAL	470K	1%	1/4W		R911	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R604	1-216-097-91	RES,CHIP	100K	5%	1/10W		R912	1-216-041-00	RES,CHIP	470	5%	1/10W	
							R913	1-216-049-91	RES,CHIP	1 <b>K</b>	5%	1/10W	
R607	1-249-425-11	CARBON	4.7K	5%	1/4W		R914	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	
R608	1-240-205-91	CARBON	22M	5%	1/2W		R915	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W								
R610	1-216-073-00	RES,CHIP	10K	5%	1/10W		R916	1-216-017-91	RES,CHIP	47	5%	1/10W	
R611	1-216-089-91	RES,CHIP	47K	5%	1/10W		R917	1-216-041-00	RES,CHIP	470	5%	1/10W	
D C12	1 216 045 00	DEC CIUD	<b>600</b>	50/	1/10337		R918	1-216-041-00	RES,CHIP	470	5%	1/10W	
R612	1-216-045-00	RES,CHIP	680	5%	1/10W								
R614	1-216-041-00	RES,CHIP	470	5%	1/10W	,			ADEL AV				
R615	1-216-350-11 1-260-302-51	METAL OXIDE	1.2	5%	1W F 1/2W F				<relay></relay>				
R616 R617	1-247-791-91	CARBON CARBON	6.8 22	5% 5%	1/2W I	7	DV600 ≜	1-755-040-11	RELAY				
								1-755-266-11	RELAY, AC POWI	ER			
R619	1-260-128-11	CARBON METAL OVIDE	270K	5%	1/2W	,							
R620 R621	1-215-915-11 1-215-859-00	METAL OXIDE METAL OXIDE	470 22	5% 5%	3W I 1W I				<switch></switch>				
R622	1-215-839-00	METAL OXIDE	8.2	5%	3W F				~2MIICU>				
R623	1-216-400-11	RES,CHIP	8.2 82K	5% 5%	1/10W	1	S502	1-572-707-11	SWITCH, LEVER				
K023	1-210-073-00	KLO,CHIF	04 <b>IX</b>	J /0	1/10 W			1-571-433-31	SWITCH, LEVER SWITCH, PUSH (				
R624	1-216-089-91	RES,CHIP	47K	5%	1/10W		S901	1-692-431-21	SWITCH, TACTIL				
R626	1-216-049-91	RES,CHIP	1K	5%	1/10W		S902	1-692-431-21	SWITCH, TACTII				
R627	1-240-251-11	CMT,MELF	6.8	5%	10W		S903	1-692-431-21	SWITCH, TACTII				
R629	1-247-747-11	CARBON	470	5%	1/2W F	7			,				
R630	1-249-429-11	CARBON	10K	5%	1/4W I								
						,							

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The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
S904	1-692-431-21	SWITCH, TACTIL	F			C746	1-102-114-00	CERAMIC	470PF	10%	50V
S905	1-692-431-21	SWITCH, TACTIL				C1803	1-102-114-00	ELECT	10MF	20%	50V
S906	1-692-431-21	SWITCH, TACTIL				C1804	1-126-964-11	ELECT	10MF	20%	50V
S907	1-692-431-21	SWITCH, TACTIL				C1809	1-126-942-61	ELECT	1000MF	20%	25V
		<transformer< td=""><td>&gt;</td><td></td><td></td><td></td><td></td><td><connector></connector></td><td></td><td></td><td></td></transformer<>	>					<connector></connector>			
T501	1-437-195-11	TRANSFORMER,	HORIZONTA	AL DRIV	/E	CN701	1-508-765-00	PIN, CONNECTO	R (5MM PIT	CH) 3P	
T503 🛮	△ 1-453-293-11	TRANSFORMER	ASSY, FLYBA	ACK (N	X-1748//	CN702	1-695-915-11	TAB (CONTACT)	`	,	
m 40.4		M3A4)					1-564-509-11	PLUG, CONNECT	OR 6P		
T601 T603 \( \Delta	1-424-682-11 1-433-513-31	TRANSFORMER, TRANSFORMER,				CN704	1-695-915-11 1-564-507-11	TAB (CONTACT) PLUG, CONNECT	COD 4D		
	1-431-852-11	TRANSFORMER,		' '		CN1601	1-304-307-11	TEOG, CONNECT	OK 41		
		,		(- )		CN1802*	1-564-506-11	PLUG, CONNECT	OR 3P		
		<thermistor></thermistor>									
		<thermistor></thermistor>						<diode></diode>			
THP600	1-809-539-11	THERMISTOR, PO	OSITIVE								
						D701	8-719-911-19	DIODE 1SS119-25			
		ZELINIED.				D702	8-719-911-19	DIODE 188119-25			
		<tuner></tuner>				D703 D707	8-719-911-19 8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25			
TU101	8-598-477-10	TUNER, FSS BTF-	WG411			D707	8-719-911-19	DIODE 1SS119-25			
10101	0 0,0 1,7 10	101,214,122,211	0.11			2,00	0 ,13 ,11 1,	21022 100117 20	,		
						D709	8-719-911-19	DIODE 1SS119-25	5		
		<crystal></crystal>				D710	8-719-911-19	DIODE 1SS119-25			
V001	1 570 105 11	VIDDATOD CEDA	MIC			D711	8-719-911-19	DIODE 188119-25			
X001 X302	1-579-125-11 1-781-132-21	VIBRATOR, CERA VIBRATOR, CRYS				D712 D713	8-719-911-19 8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25			
A302	1-761-132-21	VIDRATOR, CRTS	IAL			D/13	0-/17-711-17	DIODE 133119-2.	,		
						D714	8-719-911-19	DIODE 1SS119-25	5		
						D715	8-719-911-19	DIODE 1SS119-25	5		
						D716	8-719-911-19	DIODE 1SS119-25			
******	************	********	******	******	*****	D717	8-719-121-26	DIODE 188110 26			
						D1803	8-719-911-19	DIODE 1SS119-25	)		
	* A-1331-962-A	C5 BOARD, MOU		F51P50/	(XF51M65)	D1804	8-719-911-19	DIODE 1SS119-25	5		
	* A 1221 050 A	**************		T211400	VE/ME\\\	D1808	8-719-908-03	DIODE GP08D			
	* A-1331-939-A	C5 BOARD, MOU		.F21M80	)(E/ME)))						
	* A-1331-955-A	C5 BOARD, MOUN	NTED (KV-XF	21M80(	VIETNAM)/			<ic></ic>			
		XF21M83) *********	****			IC1900	0.750.000.20	IC I A (510			
	* A-1331-941-A	C5 BOARD, MOU		F21N90	))	IC1800	8-759-822-38	IC LA6510			
		*******			,						
	7 (02 040 01	CODEW DOW 2V	0					<jack></jack>			
	7-682-948-01	SCREW +PSW 3X	8			J701 🗥	1-540-071-22	SOCKET, CRT			
								, 2.12			
		<capacitor></capacitor>						<coil></coil>			
C701	1-115-350-51	CERAMIC	0.0047MF		2KV			\COIL>			
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V	L701	1-410-667-31	INDUCTOR	22UH		
C703	1-107-651-11	ELECT	4.7MF	20%	250V	L710	1-408-609-41	INDUCTOR	33UH		
C704	1-130-202-00	FILM	0.022MF	5%	400V	L711	1-408-609-41	INDUCTOR	33UH		
C706	1-104-664-11	ELECT	47MF	20%	16V	L712	1-408-609-41	INDUCTOR	33UH		
C708	1-102-114-00	CERAMIC	470PF	10%	50V						
C709	1-102-114-00	CERAMIC	470PF	10%	50V			<transistor></transistor>			
C710	1-102-114-00	CERAMIC	470PF	10%	50V			·			
C712	1-102-116-00	CERAMIC	680PF	10%	50V	Q704	8-729-326-11	TRANSISTOR 2S			
C713	1-102-116-00	CERAMIC	680PF	10%	50V	Q705	8-729-326-11	TRANSISTOR 2S			
C714	1_102 116 00	CERAMIC	680PF	100/	50V	Q706	8-729-326-11 8-729-200-17	TRANSISTOR 2S			
C714 C716	1-102-116-00 1-126-933-11	CERAMIC ELECT	100MF	10% 20%	50V 16V	Q707 Q708	8-729-200-17 8-729-200-17	TRANSISTOR 2S. TRANSISTOR 2S.			
C710	1-120-933-11	CERAMIC	47PF	5%	50V	2,00	0 127-200-11	110 11 10 10 10 10 20	110/1-U		
C736	1-102-114-00	CERAMIC	470PF	10%	50V						
C737	1-102-114-00	CERAMIC	470PF	10%	50V	I					

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# **H4** (KV-XF21M83/XF51M65 only)



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMA	ARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q709 Q710	8-729-200-17 8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S							<variable res<="" td=""><td>ISTOR&gt;</td><td></td><td></td></variable>	ISTOR>		
Q710 Q711	8-729-119-78	TRANSISTOR 2S					RV702	1-241-656-21	RES, ADJ, METAI	FII M 110M		
Q711	8-729-119-78	TRANSISTOR 2S					KV 702	1-241-030-21	KLS, ADJ, WIL IAI	Z I ILIVI I I IOIVI		
Q1802	8-729-119-78	TRANSISTOR 2S										
Q1002	0 /2/ 11/ /0	11411 (5151-514 25	02/00 111 2									
		<resistor></resistor>					*******	******	******	******	*****	******
R703	1-249-496-11	CARBON	100K	504	1/2W							
R705	1-249-490-11	METAL OXIDE	8.2	5% 5%	1/2 W	F	*	: A 12/11 381 A	F BOARD, MOUN	TED (KV HE	51D50/3	ZE51M65)
R705	1-215-417-00	METAL OXIDE	680	1%	1/4W	1.		A-1241-301-A	*********	,	311 30/2	XI'31W03)
R707	1-215-413-00	METAL	470	1%	1/4W		*	· A-1241-379-A	F BOARD, MOUN	JTED (KV-XF	21M800	F/ME))
R708	1-216-379-11	METAL OXIDE	6.8	5%	2W	F		11 12 11 077 11	******		211.100(	2(1.12))
							*	A-1241-378-A	F BOARD, MOUN	NTED (KV-XF	21M80(	VIETNAM)/
R710	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F			XF21M83)	·		· ·
R711	1-247-752-11	CARBON	1K	5%	1/2W				******	****		
R712	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	*	· A-1241-383-A	F BOARD, MOUN	NTED (KV-XF	21N90)	
R713	1-247-752-11	CARBON	1K	5%	1/2W				******	****		
R714	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F						
								1-533-223-11	CLIP, FUSE			
R715	1-247-752-11	CARBON	1K	5%	1/2W		*	4-374-846-01	COVER, CAPACIT	ΓOR, CAP TY	PE	
R719	1-215-480-00	METAL	300K	1%	1/4W							
R720	1-249-923-11	CARBON	1K	5%	1/4W	F						
R721	1-215-489-00	METAL	680K	1%	1/4W	_			<capacitor></capacitor>			
R722	1-249-923-11	CARBON	1K	5%	1/4W	F	G654 A	1 115 500 51	CED LA CC	0.00473475	000/	25011
D722	1 215 470 00	METAI	2701/	10/	1 /4337			1-117-703-51	CERAMIC	0.0047MF	99%	250V
R723 R724	1-215-479-00 1-249-923-11	METAL CARBON	270K 1K	1% 5%	1/4W 1/4W	Б	C4602 ZIN	1-104-708-51	FILM	0.47MF	20%	250V
R724 R725	1-249-923-11	CARBON	2.2K	5%	1/4W	Г			<connector></connector>			
R726	1-249-421-11	CARBON	2.2K 2.2K	5%	1/4W				CONNECTOR>			
R727	1-249-421-11	CARBON	2.2K	5%	1/4W		CN4601*	1-580-843-11	PIN, CONNECTO	R (POWFR)		
10/2/	1 247 421 11	CHREON	2.211	370	1/4**			1-580-843-11	PIN, CONNECTO			
R728	1-249-407-11	CARBON	150	5%	1/4W			1-695-915-11	TAB (CONTACT)	11 (1 0 1 211)		
R729	1-249-407-11	CARBON	150	5%	1/4W				()			
R730	1-249-407-11	CARBON	150	5%	1/4W							
R731	1-249-399-11	CARBON	33	5%	1/4W				<fuse></fuse>			
R732	1-249-399-11	CARBON	33	5%	1/4W							
							F4601 🛆	1-532-237-11	FUSE, TIME-LAG	6 (BET) 3.15A	/250V	
R733	1-249-399-11	CARBON	33	5%	1/4W							
R734	1-247-739-11	CARBON	100	5%	1/2W							
R738	1-247-807-31	CARBON	100	5%	1/4W				<resistor></resistor>			
R739	1-247-807-31	CARBON	100	5%	1/4W							
R740	1-247-807-31	CARBON	100	5%	1/4W		R4601 🗥	1-202-719-91	SOLID	1M	10%	1/2W
D755	1 240 419 11	CADDON	1.2V	504	1/4337							
R755 R756	1-249-418-11 1-249-418-11	CARBON CARBON	1.2K 1.2K	5% 5%	1/4W 1/4W				<transforme< td=""><td>2</td><td></td><td></td></transforme<>	2		
R757	1-249-418-11	CARBON	1.2K 1.2K	5%	1/4W 1/4W				<1 KANSTURME!			
R1802	1-249-416-11	CARBON	3.3	5%	1/4W	F	T4601	1-424-682-11	TRANSFORMER,	LINE FILTE	R	
R1803	1-249-387-11	CARBON	3.3	5%	1/4W		T4602	1-424-682-11	TRANSFORMER,			
111003	2.7 307 11	5.11.251,	0.0	270	2, 111	-	1.002	1 .2 . 302 11	-10 L OI OI OILIDIN	,		
R1805	1-249-429-11	CARBON	10K	5%	1/4W							
R1806	1-249-425-11	CARBON	4.7K	5%	1/4W				<varistor></varistor>			
R1808	1-249-425-11	CARBON	4.7K	5%	1/4W							
R1809	1-249-435-11	CARBON	33K	5%	1/4W		VDR461	1-801-073-31	VARISTOR TNR1	4V471K660 (6	except K	V-XF21N90)
R1810	1-249-435-11	CARBON	33K	5%	1/4W		VDR461	1-801-451-51	VARISTOR TNR1	4V271K660 (	KV-XF2	21N90 only)
R1811	1 2/0 //0 11	CARBON	82K	50/	1/4W							
R1811 R1812	1-249-440-11 1-249-435-11	CARBON CARBON	82K 33K	5% 5%	1/4W 1/4W							
R1812 R1821	1-249-433-11	CARBON	82K	5% 5%	1/4W 1/4W							
R1822	1-249-440-11	CARBON	33K	5%	1/4W		********	******	********	*****	******	******
R1823	1-249-435-11	CARBON	5.6K	5%	1/4W							
111023	1 217 720-11	STREEDOT (	J.011	5 /0	1/-1 11							
R1824	1-249-435-11	CARBON	33K	5%	1/4W		*	A-1372-669-A	H4 BOARD, MOU	INTED (KV-X	F21M8	3)
-11021	, ., .,			2,0	2, 111			2 22.2 305 71	*******			- /
							*	A-1372-681-A	H4 BOARD, MOU	NTED (KV-X	F51M6	5)
									******	*****		

#### **H4** (KV-XF21M83/XF51M65)

## **J3/K1**(KV-XF21M83/XF51M65 only)

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		<connector></connector>				C4212	1-128-551-11		22MF	20%	25V
CN4901*	1-564-507-11	PLUG, CONNECT	OR 4P			C4213 C4214	1-126-943-11 1-126-943-11		2200MF 2200MF	20% 20%	25V 25V
CN4902*	1-564-509-11	PLUG, CONNECT	OR 6P			C4215	1-126-933-11	ELECT	100MF	20%	16V
CN4903*	1-564-507-11	PLUG, CONNECT	OR 4P			C4216	1-126-934-11	ELECT	220MF	20%	16V
		<jack></jack>				C4217 C4273	1-126-964-11 1-126-964-11	ELECT ELECT	10MF 10MF	20% 20%	50V 50V
J4901	1-750-264-11	JACK									
								<connector></connector>			
*****	*******	*******	******	*****		CN4202 * CN4203 *	1-564-507-11 1-564-506-11	PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	OR 4P OR 3P		
						C114204	1 304 307 11	TEGG, CONVECT	OK 41		
*	A-1388-255-A	J3 BOARD, MOUN		F21M83	)			<diode></diode>			
*	A-1388-256-A	J3 BOARD, MOUN		F51M65	)			<diode></diode>			
		******	****			D4205	8-719-911-19	DIODE 1SS119-25			
								<ic></ic>			
		<connector></connector>				IC4200	8-759-980-43	IC TDA2009A			
CN3451*	1-564-518-11	PLUG, CONNECT	OR 3P			104200	0 737 700 43	TC 1D/12007/1			
								<ic link=""></ic>			
		<diode></diode>						CIC LINK			
D2451	0.710.110.72	DIODE DD20EGD2				PS4200	1-532-675-21	LINK, IC 1.5A/150	V		
D3451 D3452		DIODE RD30ESB2									
D3453		DIODE RD30ESB2						<transistor></transistor>			
D3454	8-719-110-72	DIODE RD30ESB2	2			Q4201	8-729-120-28	TRANSISTOR 2SO	1623-L5L6		
						Q4203	8-729-120-28	TRANSISTOR 2SO	C1623-L5L6		
		<jack></jack>				Q4205 Q4206	8-729-120-28 8-729-224-62	TRANSISTOR 2SO TRANSISTOR 2SI			
J3451	1-694-467-11	TERMINAL, PUSH	H (2P)			Q 1200	0 727 221 02	THE HOLD FOR EST	L IO OR		
								<resistor></resistor>			
								(KESISTOR)			
ale	colo alle alle alle alle alle alle alle a	*******	alerale alerale alerale alerale alerale	le aleale aleale aleale al	eske skeskeskeskeskeskeskeskesk	R4201	1-249-377-11 1-249-377-11		0.47	5%	1/4W F
						R4202 R4203	1-249-377-11		0.47 3.9K	5% 5%	1/4W F 1/10W
	. 1200 (14.1	WI DOLDD MOU	NIEED (IIII)	E213 f0/		R4204	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
*	A-1380-614-A	K1 BOARD, MOU		F21M8.	5)	R4205	1-216-049-91	RES,CHIP	1K	5%	1/10W
*	A-1380-616-A	K1 BOARD, MOU		F51M65	5)	R4206	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
		*******	*****			R4207 R4208	1-216-067-00 1-216-073-00	RES,CHIP RES,CHIP	5.6K 10K	5% 5%	1/10W 1/10W
	4-382-854-11	SCREW (M3X10),	P, SW (+)			R4209	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
						R4210	1-216-073-00	RES,CHIP	10K	5%	1/10W
		<capacitor></capacitor>				R4211	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
C4201	1-126-961-11	ELECT	2.2MF	20%	50V	R4212 R4213	1-216-049-91 1-216-065-91	RES,CHIP RES,CHIP	1K 4.7K	5% 5%	1/10W 1/10W
C4201	1-126-961-11	ELECT	2.2MF	20%	50V	R4213	1-216-041-00	RES,CHIP	470	5%	1/10W
C4203	1-130-495-00	MYLAR	0.1MF	5%	50V	R4215	1-216-025-91	RES,CHIP	100	5%	1/10W
C4204 C4205	1-126-961-11 1-130-495-00	ELECT MYLAR	2.2MF 0.1MF	20% 5%	50V 50V						
C4206 C4208	1-126-964-11 1-126-934-11	ELECT ELECT	10MF 220MF	20% 20%	50V 16V						
C4209	1-126-943-11	ELECT	2200MF	20%	25V						
C4210 C4211	1-126-961-11 1-126-961-11	ELECT ELECT	2.2MF 2.2MF	20% 20%	50V 50V						
C7211	1 120-701-11	LLL(I	2,21 <b>VII</b>	2070	30 ¥	l					

### **V1**(KV-XF51M65 only)

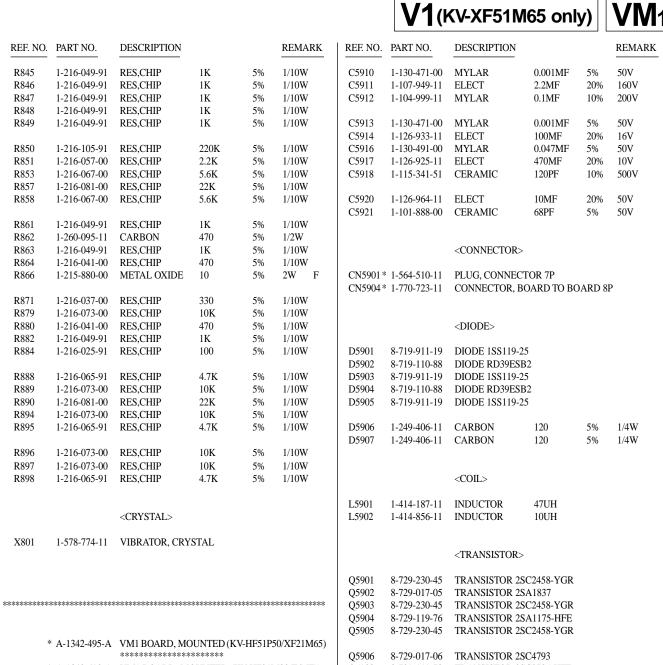
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMAI
R4217	1-216-025-91	RES,CHIP	100	5%	1/10W			<ic></ic>			
R4218	1-249-441-11	CARBON	100K	5%	1/4W	*G004	0.550 454 05	70.01.150.1			
R4219	1-216-097-91	RES,CHIP	100K	5%	1/10W	IC801	8-759-476-87	IC SAA5261			
R4221 R4222	1-249-426-11 1-249-429-11	CARBON CARBON	5.6K 10K	5% 5%	1/4W 1/4W						
	1-249-429-11	CARDON	1010	370	1/4**			<chip conduc<="" td=""><td>CTOR&gt;</td><td></td><td></td></chip>	CTOR>		
R4230	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	ID 00.1	1 216 205 01	CHOPT	0		
						JR801 JR802	1-216-295-91 1-216-295-91	SHORT SHORT	0		
						JR804	1-216-295-91	SHORT	0		
						JR805	1-216-295-91	SHORT	0		
******	*******	*******	******	******	******	JR806	1-216-295-91	SHORT	0		
						JR807	1-216-295-91	SHORT	0		
¥	* A-1347-159-A	V1 BOARD, COM		-XF51M	65 ONLY)	JR808	1-216-295-91	SHORT	0		
								<transistor:< td=""><td>&gt;</td><td></td><td></td></transistor:<>	>		
		<capacitor></capacitor>				0801	8-729-120-28	TRANSISTOR 2	SC1623 I 5I 6		
		<caiachuk></caiachuk>				Q801 Q803	8-729-120-28 8-729-120-28	TRANSISTOR 2			
C801	1-104-664-11	ELECT	47MF	20%	16V	Q805 Q805	8-729-120-28	TRANSISTOR 2			
C805	1-163-038-91	CERAMIC CHIP	0.1MF	2070	25V	Q806	8-729-120-28	TRANSISTOR 2			
C806	1-163-038-91	CERAMIC CHIP	0.1MF		25V	Q807	8-729-120-28	TRANSISTOR 2			
C815	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C816	1-164-505-11	CERAMIC CHIP	2.2MF		16V	Q808	8-729-120-28	TRANSISTOR 2	SC1623-L5L6		
						Q810	8-729-120-28	TRANSISTOR 2	SC1623-L5L6		
C817	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	Q811	8-729-019-01	TRANSISTOR 2			
C818	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	Q812	8-729-120-28	TRANSISTOR 2			
C820	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	Q813	8-729-120-28	TRANSISTOR 2	SC1623-L5L6		
C821	1-163-038-91	CERAMIC CHIP	0.1MF	100/	25V	0011	0.720.420.20	mp () varamon a			
C822	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	Q814	8-729-120-28	TRANSISTOR 2			
C823	1 126 022 11	ELECT	100MF	20%	101	Q817	8-729-900-53	TRANSISTOR I			
C826	1-126-933-11 1-126-963-11	ELECT	4.7MF	20%	16V 50V	Q818	8-729-120-28	TRANSISTOR 2	3C1023-L3L0		
C829	1-120-903-11	CERAMIC CHIP	68PF	5%	50V						
C830	1-163-038-91	CERAMIC CHIP	0.1MF	370	25V			<resistor></resistor>			
C831	1-126-933-11	ELECT	100MF	20%	16V			4425151016			
						R800	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
C832	1-126-964-11	ELECT	10MF	20%	50V	R801	1-216-295-91	SHORT	0		
C835	1-163-038-91	CERAMIC CHIP	0.1MF		25V	R802	1-216-025-91	RES,CHIP	100	5%	1/10W
C837	1-126-933-11	ELECT	100MF	20%	16V	R803	1-216-295-91	SHORT	0		
						R804	1-216-295-91	SHORT	0		
		<connector></connector>				R805	1-216-295-91	SHORT	0		
<b></b>		GOLD TOTAL D		0.DD =	<b>.</b>	R807	1-216-295-91	SHORT	0		
	* 1-774-812-11	CONNECTOR, BO				R813	1-216-295-91	SHORT	0	50/	1/10337
JN803 *	* 1-774-812-11	CONNECTOR, BO	JARD IO B	OARD /	Ρ	R820 R821	1-216-073-00 1-216-083-00	RES,CHIP RES,CHIP	10K 27K	5% 5%	1/10W 1/10W
		<diode></diode>				R822	1-216-025-91	RES,CHIP	100	5%	1/10W
		\DIODL/				R824	1-216-025-91	SHORT	0	5 /0	1/10 **
D802	8-719-914-44	DIODE DAP202K				R825	1-216-295-91	SHORT	0		
D803	8-719-105-46	DIODE RD3.3M-F				R827	1-216-295-91	SHORT	0		
0804	8-719-105-91	DIODE RD5.6M-F				R828	1-216-025-91	RES,CHIP	100	5%	1/10W
D806	8-719-988-61	DIODE 1SS355TE									
D807	8-719-988-61	DIODE 1SS355TE	E-17			R829	1-216-025-91	RES,CHIP	100	5%	1/10W
						R830	1-216-295-91	SHORT	0		
						R831	1-216-295-91	SHORT	0		
		<ferrite bead<="" td=""><td><b> </b>&gt;</td><td></td><td></td><td>R832 R835</td><td>1-216-659-11 1-216-295-91</td><td>METAL CHIP SHORT</td><td>2.2K 0</td><td>0.50%</td><td>1/10W</td></ferrite>	<b> </b> >			R832 R835	1-216-659-11 1-216-295-91	METAL CHIP SHORT	2.2K 0	0.50%	1/10W
FB801	1-410-397-21	FERRITE	1.1UH			ROSS	1 210-2/3-71	SHORI	v		
FB802	1-410-397-21	FERRITE	1.1UH			R839	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
FB803	1-410-397-21	FERRITE	1.1UH			R841	1-216-025-91	RES,CHIP	100	5%	1/10W
FB804	1-410-682-31	INDUCTOR	470UH			R842	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
FB805	1-410-397-21	FERRITE	1.1UH			R843	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
						R844	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

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NoJ/	1-210-061-00	кез,спіг	22 <b>K</b>	370	1/10	/V							
R858	1-216-067-00	RES,CHIP	5.6K	5%	1/10	V	C5920	1-126-964-11	ELECT	10MF	20%	50V	
							C5921	1-101-888-00	CERAMIC	68PF	5%	50V	
R861	1-216-049-91	RES,CHIP	1K	5%	1/10	V							
R862	1-260-095-11	CARBON	470	5%	1/2W	7							
R863	1-216-049-91	RES,CHIP	1K	5%	1/10	V			<connector></connector>				
R864	1-216-041-00	RES,CHIP	470	5%	1/10								
R866	1-215-880-00	METAL OXIDE	10	5%	2W	F	CN5901	1-564-510-11	PLUG, CONNECT	TOR 7P			
11000	1 210 000 00		10	270		•		* 1-770-723-11	CONNECTOR, BO		ARD 81	)	
R871	1-216-037-00	RES,CHIP	330	5%	1/10	N	C1(3)01	1 770 723 11	COLLIDE FOR, D.	orino to be	71110		
R879	1-216-073-00	RES,CHIP	10K	5%	1/10								
R880	1-216-041-00	RES,CHIP	470	5%	1/10				<diode></diode>				
R882	1-216-041-00	RES,CHIP	1K	5%	1/10				<diode></diode>				
R884	1-216-025-91	RES,CHIP	100	5%	1/10		D5901	8-719-911-19	DIODE 1SS119-2:	5			
K004	1-210-023-91	кез,спіг	100	370	1/10	· v							
D000	1 016 065 01	DEC CIUD	4.717	50/	1/103	**	D5902	8-719-110-88	DIODE 199110 2				
R888	1-216-065-91	RES,CHIP	4.7K	5%	1/10		D5903	8-719-911-19	DIODE ISS119-25				
R889	1-216-073-00	RES,CHIP	10K	5%	1/10		D5904	8-719-110-88	DIODE RD39ESB				
R890	1-216-081-00	RES,CHIP	22K	5%	1/10		D5905	8-719-911-19	DIODE 1SS119-2:	•			
R894	1-216-073-00	RES,CHIP	10K	5%	1/10								
R895	1-216-065-91	RES,CHIP	4.7K	5%	1/10	N	D5906	1-249-406-11	CARBON	120	5%	1/4W	
							D5907	1-249-406-11	CARBON	120	5%	1/4W	
R896	1-216-073-00	RES,CHIP	10K	5%	1/10	N							
R897	1-216-073-00	RES,CHIP	10K	5%	1/10	N							
R898	1-216-065-91	RES,CHIP	4.7K	5%	1/10	V			<coil></coil>				
							L5901	1-414-187-11	INDUCTOR	47UH			
		<crystal></crystal>					L5902	1-414-856-11	INDUCTOR	10UH			
X801	1-578-774-11	VIBRATOR, CRY	STAL										
									<transistor></transistor>				
							O5901	8-729-230-45	TRANSISTOR 2S	C2458-YGR			
							Q5902	8-729-017-05	TRANSISTOR 2S				
********	*******	*******	******	******	*****	*****	Q5903	8-729-230-45	TRANSISTOR 2S				
							Q5904	8-729-119-76	TRANSISTOR 2S				
							Q5905	8-729-230-45	TRANSISTOR 2S				
	* A 13/12 //05 A	VM1 BOARD, MC	NINTED (KV	HE51D5	50/VE2	1M65)	Q3703	0-127-230-43	TRANSISTOR 25	C2430-1 GK			
	A-1342-493-A	***********		·mrsirs	)U/AF2	11000)	O5906	8-729-017-06	TRANSISTOR 2S	C4702			
	* A 1242 402 A	VM1 BOARD, MO		/ VEO 1 N	490/E/	MED	Q5908 Q5908	8-729-017-00					
	* A-1342-492-A	***********		/-AF21N	VIOU(E/	VIE))	_		TRANSISTOR 2S				
	* A 1242 401 A			Z VEO I N	100		Q5909	8-729-119-78	TRANSISTOR 2S	C2/85-HFE			
	* A-1342-491-A	VM1 BOARD, MO	,	-AF21N	V18U								
		(VIETNAM)/XF2							DEGIGEOD				
	* 1 1040 450 1			, x/E013	100)				<resistor></resistor>				
	* A-1342-453-A	VM1 BOARD, M0		/-XF21N	N90)		D 5001	1 245 015 01	CARRON	220	50/	1 /4337	
		*****	*****				R5901	1-247-815-91	CARBON	220	5%	1/4W	_
							R5902	1-249-414-11	CARBON	560	5%	1/4W	
	4-382-854-11	SCREW (M3X10)	, P, SW (+)				R5903	1-247-735-11	CARBON	47	5%	1/2W	F
							R5904	1-249-411-11	CARBON	330	5%	1/4W	
							R5905	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W	
		<capacitor></capacitor>											
							R5906	1-249-417-11	CARBON	1K	5%	1/4W	
C5902	1-104-661-91	ELECT	330MF	20%	16V		R5907	1-249-417-11	CARBON	1K	5%	1/4W	
C5903	1-161-830-00	CERAMIC	0.0047MF		500V	7	R5908	1-249-383-11	CARBON	1.5	5%	1/4W	F
C5905	1-126-925-11	ELECT	470MF	20%	10V		R5909	1-247-815-91	CARBON	220	5%	1/4W	
C5906	1-130-491-00	MYLAR	0.047MF	5%	50V		R5910	1-249-403-11	CARBON	68	5%	1/4W	
C5907	1-107-638-11	ELECT	33MF	20%	160V	,							
		-	<del>-</del>		'								
C5908	1-106-383-00	MYLAR	0.047MF	10%	200V	,							
C5909	1-126-933-11	ELECT	100MF	20%	16V								
	/00 11			_3/0	-0.		I						

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The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.



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REF. NO.	PART NO.	DESCRIPTION			REM	ARK	REF. NO. PART NO.	DESCRIPTION	REMARK
R5911	1-249-439-11	CARBON	68K	5%	1/4W		1-417-151-21	MATCHING TRANSFORME	R ANTENNA
R5912	1-249-437-11	CARBON	47K	5%	1/4W		1-501-372-81		AC, THATELANT
R5914	1-249-403-11	CARBON	68	5%	1/4W		3-701-910-00	,	X20)
R5915	1-249-429-11	CARBON	10K	5%	1/4W		3-867-177-11		1120)
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W		* 4-055-210-21	· · · · · · · · · · · · · · · · · · ·	
D5017	1 240 416 11	CARRON	920	50/	1 / / \		* 4.070.000.01	CUCHION (LOWED)(ACC)V	n
R5917 R5918	1-249-416-11 1-249-429-11	CARBON CARBON	820 10K	5% 5%	1/4W 1/4W		* 4-070-980-01 * 4-070-981-01	, ,,	*
R5919	1-249-429-11	CARBON	10K	5% 5%	1/4W		* 4-070-986-01	' '' '	
R5919	1-249-417-11	CARBON	68K	5% 5%	1/4W		4-070-990-11		
R5921	1-215-912-11	METAL OXIDE	150	5%	3W	F	4-392-003-41	,	
D.5000	1.010.111.11	a.ppov	7.50	<b>~</b> a.	4 / 4***		4 202 004 44	or m	
R5922	1-249-414-11	CARBON	560	5%	1/4W		4-392-004-11	CLIP	
R5923	1-249-383-11	CARBON	1.5	5%	1/4W				
R5925 R5929	1-249-401-11 1-215-880-00	CARBON METAL OXIDE	47 10	5% 5%	1/4W 2W	г F			
R5929 R5930	1-249-413-11	CARBON	470	5%	1/4W		***************	************	********
K3730	1-247-415-11	CARDON	470	370	1/7***				
R5931	1-249-413-11	CARBON	470	5%	1/4W				
R5932	1-249-413-11	CARBON	470	5%	1/4W			ES AND PACKING MATERIALS	
R5933	1-249-413-11	CARBON	470	5%	1/4W		*******	*******	·1
R5934	1-249-430-11	CARBON	12K	5%	1/4W				
R5935	1-249-429-11	CARBON	10K	5%	1/4W		1-417-151-21		ER, ANTENNA
							1-501-372-81		
							1-569-008-21	· · · · · · · · · · · · · · · · · · ·	
							3-701-910-00	· · · · · · · · · · · · · · · · · · ·	,
******	******	********	*******	******	******	*****	3-866-882-21	MANUAL, INSTRUCTION (	KV-XF21M80(ME))
							3-866-882-31	MANUAL, INSTRUCTION (	KV-XF21M80(E))
							* 4-053-003-01	· · · · · · · · · · · · · · · · · · ·	11 7 11 2111100(E))
		MISCELLANEOU	IS				* 4-067-168-01	,	
		******					* 4-070-796-01		ì
							* 4-070-797-01	` /\ /	
<u>^</u>	1-416-946-11	COIL, DEMAGNI	ETIC (EXC	EPT KV-X	KF21N90	))			<i>'</i>
	1-416-946-31	COIL, DEMAGNI	,			- /	4-392-003-31	BAND, HOLD	
	1-452-032-00	MAGNET,DISC	- (	,			4-392-004-21		
	1-452-094-00	CIRCULAR DISC	MAGNET	В					
	1-452-728-61	COIL, NA ROTAT	TON (RT-15	54)					
	1-503-902-11	SPEAKER (15X6	5CM) (KV	UES 1D50	`			**********	aktorik orik orik orik orik orik orik orik
	1-505-902-11	SPEAKER (10CM	, ,			NI V)			
	1-529-125-11	SPEAKER (13X7)	, .			,			
<b>^</b>	1-574-062-22	CORD, POWER (					ACCESSORI	ES AND PACKING MATERIAL	S
	1 371 002 22	(KV-XF21M80(E/		I VECTOR	., 2.31 . 2	250 1		80(VIETNAM)/XF21M83/XF21N	
<u>^</u>	1-574-062-52	CORD, POWER (		NECTOR	) 2.5A/2	250V		**********	
		(KV-HF51P50/XF			, =				
	4 77 - 02 -	gont				0.1	1-417-151-21		
$\triangle$	. 1-575-023-11	CORD, POWER (	WITH CON	INECTOR	() 6A/25	υV	1 501 720 41	(KV-XF21M80(VIETNAM)O	, , , , , , , , , , , , , , , , , , ,
<b>A</b>	. 1-782-173-11	(KV-XF21N90) CORD, POWER (	WITH CON	NECTOR	) 2.5A/2	250V	1-501-730-41	ANTENNA, TELESCOPIC (I XF21M80(VIETNAM)ONLY	
		(KV-XF21M80(V)			*		3-701-910-00	` ,	,
	8-451-505-11	DEFLECTION YO	,				3-865-541-41	,	,
	8-453-011-31	NA299-S2	`	,			3-867-918-11		
<u>^</u>	8-738-809-05	PICTURE TUBE	(A51LPT70	X) (KV-X	F21M80	)(E/		XF21M80(VIETNAM)/XF21	M83)
		ME)/XF21N90)							
							* 4-039-372-01	-,	
$\triangle$	8-738-812-05	PICTURE TUBE (	*	, ,		1	* 4-062-162-11	,	F21M80(VIETNAM)/
		XF21M80(VIETN	AM)/XF21.	M83/XF5	IM65)		* 4-067-169-01	XF21M83) CUSHION (UPPER)(ASS'Y)	(KV VE21N00)
							* 4-067-170-01		
							* 4-070-538-01	, , , ,	, · · · · · · · · · · · · · · · · · · ·
******	******	*******	******	*****	******	****	7-070-336-01	(KV-XF21M80(VIETNAM)/2	*
									,
							* 4-070-539-01	` /\ /	
		S AND PACKING N			51P50)			(KV-XF21M80(VIETNAM)/X	,
	******	*******	*******	*			* 4-070-537-01	,	·XF21M80(VIETNAM)/
							1	XF21M83)	

XF21M83)

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RM-915

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*	4-071-006-01 4-392-003-11 4-392-004-11	INDIVIDUAL CARTON (KV-XF21N90) BAND, HOLD CLIP					
*******	*****	***************	******				
		S AND PACKING MATERIALS (KV-XF5	1M65)				
4	4-070-993-01 4-070-994-01	MANUAL, INSTRUCTION BAG, PROTECTION LABEL, CARTON INDIVIDUAL CARTON CUSHION (LOWER)(ASS'Y)					
*	4-070-995-01 4-392-003-41 4-392-004-31	BAND, HOLD					
******	******	*************	*****				
		REMOTE COMMANDER ************************************					
	1-418-163-11 1-418-417-11 9-939-697-01	REMOTE COMMANDER (RM-952) (EXCEPT KV-XF21N90) REMOTE COMMANDER (RM-915) (KV BATTERY COVER, REMOTE COMMA					

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**Sony Corporation** SONY TV Industries (M) Sdn. Bhd. **TV Business of General Area**